ANALYTICAL REPORT

Lab Number:	L2168052
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Kimberly Semon
Phone:	(212) 479-5486
Project Name:	1607 SURF AVE.
Project Number:	170599501
Report Date:	12/13/21

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Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2168052
Report Date: 12/13/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2168052-01	TMW-3_121021	WATER	BROOKLYN, NY	12/10/21 11:50	12/10/21
L2168052-02	TMW-1_121021	WATER	BROOKLYN, NY	12/10/21 11:05	12/10/21
L2168052-03	TMW-2_121021	WATER	BROOKLYN, NY	12/10/21 10:15	12/10/21
L2168052-04	TMW-4_121021	WATER	BROOKLYN, NY	12/10/21 09:06	12/10/21
L2168052-05	DUP01_121021	WATER	BROOKLYN, NY	12/10/21 00:00	12/10/21
L2168052-06	FB01_121021	WATER	BROOKLYN, NY	12/10/21 11:25	12/10/21
L2168052-07	TB01_121021	WATER	BROOKLYN, NY	12/10/21 00:00	12/10/21

Project Name:	1607 SURF AVE.	**Lab Number:**	L2168052
Project Number:	170599501	**Report Date:**	12/13/21

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:	1607 SURF AVE.	**Lab Number:**	L2168052
Project Number:	170599501	**Report Date:**	12/13/21

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: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 12/13/21

ORGANICS

VOLATILES

Project Name: 1607 SURF AVE.
Lab Number: L2168052
Project Number: 170599501
Report Date: 12/13/21

SAMPLE RESULTS

Lab ID: L2168052-01
Client ID: TMW-3_121021
Sample Location: BROOKLYN, NY

Date Collected: 12/10/21 11:50
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/12/21 13:42
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	0.42	J	ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	ND		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	103		70-130

Project Name: 1607 SURF AVE.
Lab Number: L2168052
Project Number: 170599501
Report Date: 12/13/21

SAMPLE RESULTS

Lab ID: L2168052-02
Client ID: TMW-1_121021
Sample Location: BROOKLYN, NY
Date Collected: 12/10/21 11:05
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/12/21 14:09
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	0.40	J	ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	ND		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Project Name: 1607 SURF AVE.
Lab Number: L2168052
Project Number: 170599501
Report Date: 12/13/21

SAMPLE RESULTS

Lab ID: L2168052-03
Client ID: TMW-2_121021
Sample Location: BROOKLYN, NY
Date Collected: 12/10/21 10:15
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/12/21 14:36
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	0.38	J	ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.09	J	ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	ND		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	1.0	J	ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	107		70-130

Project Name: 1607 SURF AVE.
Lab Number: L2168052
Project Number: 170599501
Report Date: 12/13/21

SAMPLE RESULTS

Lab ID: L2168052-04
Client ID: TMW-4_121021
Sample Location: BROOKLYN, NY

Date Collected: 12/10/21 09:06
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/12/21 15:03
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	1.1		ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	ND		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	103		70-130

Project Name: 1607 SURF AVE.
Lab Number: L2168052
Project Number: 170599501
Report Date: 12/13/21

SAMPLE RESULTS

Lab ID: L2168052-05
Client ID: DUP01_121021
Sample Location: BROOKLYN, NY

Date Collected: 12/10/21 00:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/12/21 15:29
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	1.7		ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	ND		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	105		70-130

Project Name: 1607 SURF AVE.
Lab Number: L2168052
Project Number: 170599501
Report Date: 12/13/21

SAMPLE RESULTS

Lab ID: L2168052-06
Client ID: FB01_121021
Sample Location: BROOKLYN, NY
Date Collected: 12/10/21 11:25
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/12/21 12:48
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	ND		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	105		70-130

Project Name: 1607 SURF AVE.
Lab Number: L2168052
Project Number: 170599501
Report Date: 12/13/21

SAMPLE RESULTS

Lab ID: L2168052-07
Client ID: TB01_121021
Sample Location: BROOKLYN, NY

Date Collected: 12/10/21 00:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/12/21 13:15
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	ND		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	104		70-130

Project Name: 1607 SURF AVE. **Lab Number:** L2168052

Project Number: 170599501 **Report Date:** 12/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/12/21 12:21
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1582453-5					
Methylene chloride	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
Tetrachloroethene	ND		ug/l	0.50	0.18
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Trichloroethene	ND		ug/l	0.50	0.18
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2168052

Report Date: 12/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1582453-3 WG1582453-4								
Methylene chloride	98		100		70-130	2		20
Carbon tetrachloride	98		110		63-132	12		20
Tetrachloroethene	100		110		70-130	10		20
1,1,1-Trichloroethane	100		110		67-130	10		20
Vinyl chloride	100		110		55-140	10		20
1,1-Dichloroethene	99		110		61-145	11		20
Trichloroethene	100		110		70-130	10		20
cis-1,2-Dichloroethene	95		110		70-130	15		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		104		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	97		99		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2168052

Report Date: 12/13/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG1582453-6 WG1582453-7 QC Sample: L2168052-04 Client ID: TMW-4_121021												
Methylene chloride	ND	10	11	110		11	110		70-130	0		20
Carbon tetrachloride	ND	10	12	120		12	120		63-132	0		20
Tetrachloroethene	1.1	10	13	119		14	129		70-130	7		20
1,1,1-Trichloroethane	ND	10	12	120		12	120		67-130	0		20
Vinyl chloride	ND	10	12	120		12	120		55-140	0		20
1,1-Dichloroethene	ND	10	11	110		12	120		61-145	9		20
Trichloroethene	ND	10	12	120		12	120		70-130	0		20
cis-1,2-Dichloroethene	ND	10	12	120		12	120		70-130	0		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		107		70-130
4-Bromofluorobenzene	98		97		70-130
Dibromofluoromethane	99		97		70-130
Toluene-d8	99		98		70-130

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2168052
Report Date: 12/13/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2168052-01A	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-01B	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-01C	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-02A	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-02B	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-02C	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-03A	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-03B	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-03C	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-04A	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-04A1	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-04A2	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-04B	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-04B1	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-04B2	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-04C	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-04C1	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-04C2	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-05A	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-05B	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-05C	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-06A	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-06B	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2168052
Report Date: 12/13/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2168052-06C	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-07A	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2168052-07B	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	1607 SURF AVE.	**Lab Number:**	L2168052
Project Number:	170599501	**Report Date:**	12/13/21

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:	1607 SURF AVE.	**Lab Number:**	L2168052
Project Number:	170599501	**Report Date:**	12/13/21

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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVE.	**Lab Number:**	L2168052
Project Number:	170599501	**Report Date:**	12/13/21

Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVE.	**Lab Number:**	L2168052
Project Number:	170599501	**Report Date:**	12/13/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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, SM4500Cl-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, **LACHAT 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

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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 1

Date Rec'd in Lab: 2/11/21

ALPHA Job #: L2168052

Client Information
Client: Langan Engineering
Address: 360 W 31st St. New York, NY 10001
Phone: 212-479-5400
Fax: 212-479-5444
Email: lesmail@langan.com

Project Information
Project Name: 607 Surf Ave
Project Location: Brooklyn, NY
Project #: 170594501
(Use Project name as Project #)
Project Manager: Lamees Esmail
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 24hr TAT

Deliverables
☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☑ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ 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:
Only run CVOCs Specified in email from Lamees Esmail
cc: Esemon@langan.com ; datamanagement@langan.com

Please specify Metals or TAL.

ANALYSIS
Only run CVOCs specified in email from Lamees Esmail

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments
L2168052-01	TMW-3_121021	12/10/21	11:50	GW	CB	
02	TMW-1_121021	"	11:05	"	"	
03	TMW-2_121021	"	10:15	"	"	
04	TMW-4_121021	"	9:06	"	"	MS/MSD
05	DUP01_121021	"	—	"	"	
06	FB01_121021	12/10/21	11:25	FB	CB	
07	TB01_121021	12/10/21	—	TB	CB	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	12/10/21 1300	[illegible] (AAL)	12/10/21 1310
[illegible] (AAL)	12/10/21 1810	[illegible] AAL	12/10/21 20:30
[illegible] AAL	12/11/21	[illegible]	12/11/21 0230
[illegible]	12/11/21 0420		12/11/21 0420

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2146753
Client:	Langan Engineering & Environmental 300 Kimball Drive 4th Floor Parsippany, NJ 07054-2172
ATTN:	Jessica Friscia
Phone:	(973) 560-4488
Project Name:	1607 SURF AVE.
Project Number:	170599501
Report Date:	09/13/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2146753-01	EP07_1.5	SOIL	BROOKLYN, NY	08/31/21 09:10	08/31/21
L2146753-02	EP08_1.5	SOIL	BROOKLYN, NY	08/31/21 09:15	08/31/21
L2146753-03	EP15_1.5	SOIL	BROOKLYN, NY	08/31/21 09:20	08/31/21
L2146753-04	EP16_1.5	SOIL	BROOKLYN, NY	08/31/21 09:25	08/31/21
L2146753-05	EP23_1.5	SOIL	BROOKLYN, NY	08/31/21 09:30	08/31/21
L2146753-06	EP24_1.5	SOIL	BROOKLYN, NY	08/31/21 09:35	08/31/21
L2146753-07	EP31_1.5	SOIL	BROOKLYN, NY	08/31/21 09:40	08/31/21
L2146753-08	EP32_1.5	SOIL	BROOKLYN, NY	08/31/21 09:45	08/31/21
L2146753-09	EP39_1.5	SOIL	BROOKLYN, NY	08/31/21 09:50	08/31/21
L2146753-10	EP40_1.5	SOIL	BROOKLYN, NY	08/31/21 09:55	08/31/21
L2146753-11	FB01_083121	WATER	BROOKLYN, NY	08/31/21 09:00	08/31/21
L2146753-12	TB01_083121	WATER	BROOKLYN, NY	08/31/21 00:00	08/31/21

Project Name:	1607 SURF AVE.	**Lab Number:**	L2146753
Project Number:	170599501	**Report Date:**	09/13/21

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: 1607 SURF AVE. **Lab Number:** L2146753
Project Number: 170599501 **Report Date:** 09/13/21

Case Narrative (continued)

Report Submission
September 13, 2021: This final report includes the results of all requested analyses.
September 08, 2021: This is a preliminary report.

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

Semivolatile Organics
The WG1541983-2 LCS recovery, associated with L2146753-11, is below the acceptance criteria for benzoic acid (7%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Perfluorinated Alkyl Acids by Isotope Dilution
The WG1543753-1 Method Blank, associated with L2146753-11, has a concentration above the reporting limit for 6:2 FTS. Since the associated sample concentrations are non-detect to the reporting limit, no corrective action is required.

Total Metals
L2146753-01 through -10: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

Cyanide, Total
The WG1542420-2/-3 LCS/LCSD recoveries for cyanide, total (42%/61%), associated with L2146753-01, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported. The LCS/LCSD RPD, associated with L2146753-01, is above the acceptance criteria for cyanide, total (47%).
The WG1542774-2/-3 LCS/LCSD recoveries for cyanide, total (65%/41%), associated with L2146753-02

Project Name:	1607 SURF AVE.	**Lab Number:**	L2146753
Project Number:	170599501	**Report Date:**	09/13/21

Case Narrative (continued)

through -10, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

Hexavalent Chromium

L2146753-11 was prepped within hold but was analyzed with the method required holding time exceeded.

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: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 09/13/21

ORGANICS

VOLATILES

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-01
Client ID: EP07_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:10
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/02/21 23:06
Analyst: JC
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.51	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.96	1
Bromomethane	ND		ug/kg	2.0	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-01 Date Collected: 08/31/21 09:10

Client ID: EP07_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.21	1
p/m-Xylene	ND		ug/kg	2.0	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.94	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	0.14	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.20	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.67	1
Acrylonitrile	ND		ug/kg	4.1	1.2	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-01 Date Collected: 08/31/21 09:10

Client ID: EP07_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	82	36.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.20	1
Ethyl ether	ND		ug/kg	2.0	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.1	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	130		70-130

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-02
Client ID: EP08_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:15
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/02/21 23:31
Analyst: JC
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.19	1
Benzene	ND		ug/kg	0.56	0.19	1
Toluene	ND		ug/kg	1.1	0.61	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.2	0.65	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.2	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-02 Date Collected: 08/31/21 09:15

Client ID: EP08_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.63	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.5	0.73	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-02 Date Collected: 08/31/21 09:15

Client ID: EP08_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.38	1
1,4-Dioxane	ND		ug/kg	90	39.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.43	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	128		70-130

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-03
Client ID: EP15_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:20
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/02/21 23:57
Analyst: JC
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.0	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.60	0.23	1
Chlorobenzene	ND		ug/kg	0.60	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.83	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	0.20	1
Bromodichloromethane	ND		ug/kg	0.60	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.60	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.60	0.19	1
Bromoform	ND		ug/kg	4.8	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	0.20	1
Benzene	ND		ug/kg	0.60	0.20	1
Toluene	ND		ug/kg	1.2	0.65	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.69	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.54	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-03 Date Collected: 08/31/21 09:20

Client ID: EP15_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.60	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.67	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.7	1
Carbon disulfide	ND		ug/kg	12	5.4	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.60	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.8	0.78	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-03 Date Collected: 08/31/21 09:20

Client ID: EP15_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	96	42.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.46	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	125		70-130

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-04
Client ID: EP16_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:25
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/03/21 00:22
Analyst: JC
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.55	0.22	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.55	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-04 Date Collected: 08/31/21 09:25

Client ID: EP16_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.71	1
Acrylonitrile	ND		ug/kg	4.4	1.3	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-04 Date Collected: 08/31/21 09:25

Client ID: EP16_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	88	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	126		70-130

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-05
Client ID: EP23_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:30
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/03/21 00:47
Analyst: JC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.55	0.22	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.55	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-05 Date Collected: 08/31/21 09:30

Client ID: EP23_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.71	1
Acrylonitrile	ND		ug/kg	4.4	1.3	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-05 Date Collected: 08/31/21 09:30

Client ID: EP23_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	88	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	127		70-130

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-06
Client ID: EP24_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:35
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/03/21 01:12
Analyst: JC
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-06 Date Collected: 08/31/21 09:35

Client ID: EP24_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.71	1
Acrylonitrile	ND		ug/kg	4.4	1.2	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-06 Date Collected: 08/31/21 09:35

Client ID: EP24_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	87	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	128		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	129		70-130

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-07
Client ID: EP31_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:40
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/03/21 01:37
Analyst: JC
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.55	0.21	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.55	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-07 Date Collected: 08/31/21 09:40

Client ID: EP31_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.71	1
Acrylonitrile	ND		ug/kg	4.4	1.2	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-07 Date Collected: 08/31/21 09:40

Client ID: EP31_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	87	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	123		70-130

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-08
Client ID: EP32_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:45
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/03/21 02:02
Analyst: JC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.55	0.22	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.55	0.18	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-08 Date Collected: 08/31/21 09:45

Client ID: EP32_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.72	1
Acrylonitrile	ND		ug/kg	4.4	1.3	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-08 Date Collected: 08/31/21 09:45

Client ID: EP32_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	88	39.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	126		70-130

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-09
Client ID: EP39_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:50
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/03/21 02:27
Analyst: JC
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.55	0.22	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.55	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-09 Date Collected: 08/31/21 09:50

Client ID: EP39_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.71	1
Acrylonitrile	ND		ug/kg	4.4	1.3	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-09 Date Collected: 08/31/21 09:50

Client ID: EP39_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	88	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	127		70-130

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-10
Client ID: EP40_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:55
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/03/21 02:52
Analyst: JC
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.1	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.1	0.97	1
Bromomethane	ND		ug/kg	2.1	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-10 Date Collected: 08/31/21 09:55

Client ID: EP40_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.95	1
Acetone	8.3	J	ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.67	1
Acrylonitrile	ND		ug/kg	4.1	1.2	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-10 Date Collected: 08/31/21 09:55

Client ID: EP40_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	83	36.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.18	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	129		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	129		70-130

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-11
Client ID: FB01_083121
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:00
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/01/21 12:23
Analyst: KTD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-11 Date Collected: 08/31/21 09:00

Client ID: FB01_083121 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	4.0	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-11 Date Collected: 08/31/21 09:00

Client ID: FB01_083121 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	113		70-130

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-12
Client ID: TB01_083121
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 00:00
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/01/21 12:50
Analyst: KTD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-12 Date Collected: 08/31/21 00:00

Client ID: TB01_083121 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-12 Date Collected: 08/31/21 00:00

Client ID: TB01_083121 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	111		70-130

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/01/21 11:02
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 11-12 Batch: WG1541935-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/01/21 11:02
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 11-12 Batch: WG1541935-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/01/21 11:02
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 11-12 Batch: WG1541935-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	114		70-130

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/02/21 20:10
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-10 Batch: WG1542793-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/02/21 20:10
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-10 Batch: WG1542793-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/02/21 20:10
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-10 Batch: WG1542793-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	0.30	J	ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	0.54	J	ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	0.39	J	ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	0.27	J	ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	118		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11-12 Batch: WG1541935-3 WG1541935-4								
Methylene chloride	100		110		70-130	10		20
1,1-Dichloroethane	90		98		70-130	9		20
Chloroform	99		110		70-130	11		20
Carbon tetrachloride	92		100		63-132	8		20
1,2-Dichloropropane	86		94		70-130	9		20
Dibromochloromethane	90		97		63-130	7		20
1,1,2-Trichloroethane	94		99		70-130	5		20
Tetrachloroethene	87		99		70-130	13		20
Chlorobenzene	90		99		75-130	10		20
Trichlorofluoromethane	100		120		62-150	18		20
1,2-Dichloroethane	88		96		70-130	9		20
1,1,1-Trichloroethane	89		98		67-130	10		20
Bromodichloromethane	94		100		67-130	6		20
trans-1,3-Dichloropropene	89		96		70-130	8		20
cis-1,3-Dichloropropene	88		97		70-130	10		20
1,1-Dichloropropene	92		99		70-130	7		20
Bromoform	86		90		54-136	5		20
1,1,2,2-Tetrachloroethane	120		130		67-130	8		20
Benzene	97		100		70-130	3		20
Toluene	98		100		70-130	2		20
Ethylbenzene	92		100		70-130	8		20
Chloromethane	99		110		64-130	11		20
Bromomethane	120		**150**	Q	39-139	**22**	Q	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11-12 Batch: WG1541935-3 WG1541935-4								
Vinyl chloride	83		90		55-140	8		20
Chloroethane	110		130		55-138	17		20
1,1-Dichloroethene	90		100		61-145	11		20
trans-1,2-Dichloroethene	96		100		70-130	4		20
Trichloroethene	80		89		70-130	11		20
1,2-Dichlorobenzene	92		100		70-130	8		20
1,3-Dichlorobenzene	91		100		70-130	9		20
1,4-Dichlorobenzene	90		100		70-130	11		20
Methyl tert butyl ether	94		110		63-130	16		20
p/m-Xylene	90		100		70-130	11		20
o-Xylene	90		100		70-130	11		20
cis-1,2-Dichloroethene	91		99		70-130	8		20
Dibromomethane	93		100		70-130	7		20
1,2,3-Trichloropropane	93		110		64-130	17		20
Acrylonitrile	77		84		70-130	9		20
Styrene	90		100		70-130	11		20
Dichlorodifluoromethane	110		120		36-147	9		20
Acetone	81		98		58-148	19		20
Carbon disulfide	99		100		51-130	1		20
2-Butanone	76		92		63-138	19		20
Vinyl acetate	**160**	Q	**180**	Q	70-130	12		20
4-Methyl-2-pentanone	63		77		59-130	20		20
2-Hexanone	74		93		57-130	**23**	Q	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11-12 Batch: WG1541935-3 WG1541935-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	110		120		63-133	9		20
1,2-Dibromoethane	92		100		70-130	8		20
1,3-Dichloropropane	94		100		70-130	6		20
1,1,1,2-Tetrachloroethane	88		93		64-130	6		20
Bromobenzene	90		96		70-130	6		20
n-Butylbenzene	95		100		53-136	5		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	88		96		70-130	9		20
o-Chlorotoluene	95		100		70-130	5		20
p-Chlorotoluene	93		99		70-130	6		20
1,2-Dibromo-3-chloropropane	79		90		41-144	13		20
Hexachlorobutadiene	83		92		63-130	10		20
Isopropylbenzene	90		100		70-130	11		20
p-Isopropyltoluene	90		97		70-130	7		20
Naphthalene	**55**	Q	70		70-130	**24**	Q	20
n-Propylbenzene	94		100		69-130	6		20
1,2,3-Trichlorobenzene	73		82		70-130	12		20
1,2,4-Trichlorobenzene	75		86		70-130	14		20
1,3,5-Trimethylbenzene	91		100		64-130	9		20
1,2,4-Trimethylbenzene	87		98		70-130	12		20
1,4-Dioxane	78		94		56-162	19		20
p-Diethylbenzene	87		97		70-130	11		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11-12 Batch: WG1541935-3 WG1541935-4								
p-Ethyltoluene	92		100		70-130	8		20
1,2,4,5-Tetramethylbenzene	**69**	Q	74		70-130	7		20
Ethyl ether	110		110		59-134	0		20
trans-1,4-Dichloro-2-butene	**60**	Q	74		70-130	**21**	Q	20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		111		70-130
Toluene-d8	102		103		70-130
4-Bromofluorobenzene	97		95		70-130
Dibromofluoromethane	112		111		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-10 Batch: WG1542793-3 WG1542793-4								
Methylene chloride	100		100		70-130	0		30
1,1-Dichloroethane	100		101		70-130	1		30
Chloroform	107		109		70-130	2		30
Carbon tetrachloride	**133**	Q	**134**	Q	70-130	1		30
1,2-Dichloropropane	93		96		70-130	3		30
Dibromochloromethane	116		123		70-130	6		30
1,1,2-Trichloroethane	91		96		70-130	5		30
Tetrachloroethene	124		125		70-130	1		30
Chlorobenzene	106		107		70-130	1		30
Trichlorofluoromethane	134		132		70-139	2		30
1,2-Dichloroethane	108		111		70-130	3		30
1,1,1-Trichloroethane	128		129		70-130	1		30
Bromodichloromethane	112		117		70-130	4		30
trans-1,3-Dichloropropene	106		110		70-130	4		30
cis-1,3-Dichloropropene	108		112		70-130	4		30
1,1-Dichloropropene	114		114		70-130	0		30
Bromoform	103		110		70-130	7		30
1,1,2,2-Tetrachloroethane	82		86		70-130	5		30
Benzene	102		104		70-130	2		30
Toluene	99		100		70-130	1		30
Ethylbenzene	103		104		70-130	1		30
Chloromethane	87		86		52-130	1		30
Bromomethane	**154**	Q	146		57-147	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-10 Batch: WG1542793-3 WG1542793-4								
Vinyl chloride	98		90		67-130	9		30
Chloroethane	100		99		50-151	1		30
1,1-Dichloroethene	109		110		65-135	1		30
trans-1,2-Dichloroethene	109		109		70-130	0		30
Trichloroethene	114		116		70-130	2		30
1,2-Dichlorobenzene	104		106		70-130	2		30
1,3-Dichlorobenzene	107		109		70-130	2		30
1,4-Dichlorobenzene	106		105		70-130	1		30
Methyl tert butyl ether	104		108		66-130	4		30
p/m-Xylene	110		111		70-130	1		30
o-Xylene	99		99		70-130	0		30
cis-1,2-Dichloroethene	105		106		70-130	1		30
Dibromomethane	99		104		70-130	5		30
Styrene	103		104		70-130	1		30
Dichlorodifluoromethane	82		83		30-146	1		30
Acetone	88		88		54-140	0		30
Carbon disulfide	89		88		59-130	1		30
2-Butanone	77		82		70-130	6		30
Vinyl acetate	81		85		70-130	5		30
4-Methyl-2-pentanone	83		87		70-130	5		30
1,2,3-Trichloropropane	82		89		68-130	8		30
2-Hexanone	**67**	Q	72		70-130	7		30
Bromochloromethane	112		113		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-10 Batch: WG1542793-3 WG1542793-4								
2,2-Dichloropropane	123		122		70-130	1		30
1,2-Dibromoethane	96		100		70-130	4		30
1,3-Dichloropropane	96		99		69-130	3		30
1,1,1,2-Tetrachloroethane	119		124		70-130	4		30
Bromobenzene	107		108		70-130	1		30
n-Butylbenzene	102		102		70-130	0		30
sec-Butylbenzene	105		105		70-130	0		30
tert-Butylbenzene	110		110		70-130	0		30
o-Chlorotoluene	103		102		70-130	1		30
p-Chlorotoluene	102		103		70-130	1		30
1,2-Dibromo-3-chloropropane	98		104		68-130	6		30
Hexachlorobutadiene	123		121		67-130	2		30
Isopropylbenzene	106		106		70-130	0		30
p-Isopropyltoluene	109		109		70-130	0		30
Naphthalene	90		98		70-130	9		30
Acrylonitrile	77		82		70-130	6		30
n-Propylbenzene	103		102		70-130	1		30
1,2,3-Trichlorobenzene	104		109		70-130	5		30
1,2,4-Trichlorobenzene	110		113		70-130	3		30
1,3,5-Trimethylbenzene	104		106		70-130	2		30
1,2,4-Trimethylbenzene	104		105		70-130	1		30
1,4-Dioxane	88		93		65-136	6		30
p-Diethylbenzene	108		108		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-10 Batch: WG1542793-3 WG1542793-4								
p-Ethyltoluene	106		106		70-130	0		30
1,2,4,5-Tetramethylbenzene	111		111		70-130	0		30
Ethyl ether	90		94		67-130	4		30
trans-1,4-Dichloro-2-butene	82		91		70-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		107		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	93		94		70-130
Dibromofluoromethane	105		107		70-130

SEMIVOLATILES

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-01
Client ID: EP07_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:10
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/03/21 00:19
Analyst: IM
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 11:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-01 Date Collected: 08/31/21 09:10

Client ID: EP07_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	83.	1
2,4-Dinitrophenol	ND		ug/kg	970	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	97.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-01
Client ID: EP07_1.5
Sample Location: BROOKLYN, NY
Date Collected: 08/31/21 09:10
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	200	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	30	9.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	80		18-120

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-01
Client ID: EP07_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:10
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/10/21 01:55
Analyst: HT
Percent Solids: 81%

Extraction Method: ALPHA 23528
Extraction Date: 09/09/21 09:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.578	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.578	0.053	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.289	0.045	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.578	0.061	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.289	0.052	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.289	0.070	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.289	0.048	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.578	0.207	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.578	0.158	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.289	0.087	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.289	0.150	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.289	0.077	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.578	0.332	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.578	0.233	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.578	0.054	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.578	0.177	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.578	0.113	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.578	0.098	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.578	0.081	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.578	0.236	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.578	0.062	1
PFOA/PFOS, Total	ND		ng/g	0.289	0.048	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-01 Date Collected: 08/31/21 09:10

Client ID: EP07_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	96		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	90		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	105		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	100		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	93		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	84		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	101		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	80		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	72		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	94		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	72		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	70		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	84		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	53		24-159

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-02
Client ID: EP08_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:15
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/03/21 02:52
Analyst: IM
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 11:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	44.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	200	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	200	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	55.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-02 Date Collected: 08/31/21 09:15

Client ID: EP08_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	37.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	ND		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	170	34.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	26.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	50.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	ND		ug/kg	220	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	72.	1
2-Nitrophenol	ND		ug/kg	470	82.	1
4-Nitrophenol	ND		ug/kg	300	89.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-02
Client ID: EP08_1.5
Sample Location: BROOKLYN, NY
Date Collected: 08/31/21 09:15
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	42.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	220	66.	1
Carbazole	ND		ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	33	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	106		10-136
4-Terphenyl-d14	76		18-120

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-02
Client ID: EP08_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:15
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/10/21 02:28
Analyst: HT
Percent Solids: 74%

Extraction Method: ALPHA 23528
Extraction Date: 09/09/21 09:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.646	0.029	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.646	0.059	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.323	0.050	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.646	0.068	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.323	0.058	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.323	0.078	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.323	0.054	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.646	0.232	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.646	0.176	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.323	0.097	1
Perfluorooctanesulfonic Acid (PFOS)	0.168	J	ng/g	0.323	0.168	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.323	0.087	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.646	0.370	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.646	0.260	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.646	0.060	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.646	0.198	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.646	0.126	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.646	0.109	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.646	0.090	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.646	0.264	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.646	0.070	1
PFOA/PFOS, Total	0.168	J	ng/g	0.323	0.054	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-02 Date Collected: 08/31/21 09:15

Client ID: EP08_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	93		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	98		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	108		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	104		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	100		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	96		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	91		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	85		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	77		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	97		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	87		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	79		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	85		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	54		24-159

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-03
Client ID: EP15_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:20
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/03/21 00:40
Analyst: IM
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 11:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	37.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	55.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	27.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	52.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	70.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-03 Date Collected: 08/31/21 09:20

Client ID: EP15_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	29.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	40.	1
3-Nitroaniline	ND		ug/kg	200	39.	1
4-Nitroaniline	ND		ug/kg	200	85.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	31.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	68.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	990	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	99.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-03 Date Collected: 08/31/21 09:20

Client ID: EP15_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	210	1
Benzyl Alcohol	ND		ug/kg	200	63.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	31	9.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	87		18-120

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-03
Client ID: EP15_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:20
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/10/21 03:01
Analyst: HT
Percent Solids: 81%

Extraction Method: ALPHA 23528
Extraction Date: 09/09/21 09:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.573	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.573	0.053	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.286	0.045	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.573	0.060	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.286	0.052	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.286	0.069	1
Perfluorooctanoic Acid (PFOA)	0.057	J	ng/g	0.286	0.048	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.573	0.206	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.573	0.156	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.286	0.086	1
Perfluorooctanesulfonic Acid (PFOS)	0.275	J	ng/g	0.286	0.149	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.286	0.077	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.573	0.329	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.573	0.231	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.573	0.054	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.573	0.175	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.573	0.112	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.573	0.097	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.573	0.080	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.573	0.234	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.573	0.062	1
PFOA/PFOS, Total	0.332	J	ng/g	0.286	0.048	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-03 Date Collected: 08/31/21 09:20

Client ID: EP15_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	95		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	88		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	92		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	103		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	99		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	94		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	93		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	86		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	96		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	79		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	76		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	95		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	102		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	69		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	84		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	64		24-159

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-04
Client ID: EP16_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:25
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/03/21 01:02
Analyst: IM
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 11:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	37.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	27.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	52.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	70.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-04 Date Collected: 08/31/21 09:25

Client ID: EP16_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	40.	1
3-Nitroaniline	ND		ug/kg	200	39.	1
4-Nitroaniline	ND		ug/kg	200	85.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	68.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	980	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	98.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-04 Date Collected: 08/31/21 09:25

Client ID: EP16_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	210	1
Benzyl Alcohol	ND		ug/kg	200	63.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	31	9.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	101		10-136
4-Terphenyl-d14	89		18-120

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-04
Client ID: EP16_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:25
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/10/21 03:35
Analyst: HT
Percent Solids: 80%

Extraction Method: ALPHA 23528
Extraction Date: 09/09/21 09:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.616	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.616	0.057	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.308	0.048	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.616	0.065	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.308	0.056	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.308	0.075	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.308	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.616	0.221	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.616	0.168	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.308	0.093	1
Perfluorooctanesulfonic Acid (PFOS)	0.221	J	ng/g	0.308	0.160	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.308	0.083	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.616	0.354	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.616	0.248	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.616	0.058	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.616	0.189	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.616	0.121	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.616	0.104	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.616	0.086	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.616	0.252	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.616	0.067	1
PFOA/PFOS, Total	0.221	J	ng/g	0.308	0.052	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-04 Date Collected: 08/31/21 09:25

Client ID: EP16_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	95		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	88		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	90		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	102		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	98		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	84		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	97		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	78		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	77		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	92		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	46		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	74		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	87		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	59		24-159

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-05
Client ID: EP23_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:30
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/03/21 02:30
Analyst: IM
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 11:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	52.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	180	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	170	29.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-05 Date Collected: 08/31/21 09:30

Client ID: EP23_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	41.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	ND		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	930	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	93.	1
Pentachlorophenol	ND		ug/kg	150	43.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-05 Date Collected: 08/31/21 09:30

Client ID: EP23_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	8.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	98		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	100		30-120
2,4,6-Tribromophenol	124		10-136
4-Terphenyl-d14	107		18-120

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-05
Client ID: EP23_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:30
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/10/21 03:51
Analyst: HT
Percent Solids: 84%

Extraction Method: ALPHA 23528
Extraction Date: 09/09/21 09:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.556	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.556	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.278	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.556	0.058	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.278	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.278	0.067	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.278	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.556	0.200	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.556	0.152	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.278	0.083	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.278	0.145	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.278	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.556	0.319	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.556	0.224	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.556	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.556	0.170	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.556	0.109	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.556	0.094	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.556	0.078	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.556	0.228	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.556	0.060	1
PFOA/PFOS, Total	ND		ng/g	0.278	0.047	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-05 Date Collected: 08/31/21 09:30

Client ID: EP23_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	97		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	90		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	104		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	100		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	93		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	90		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	83		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	74		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	96		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	103		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	70		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	85		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	55		24-159

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-06
Client ID: EP24_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:35
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/03/21 03:14
Analyst: IM
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 11:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	170		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	73.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-06 Date Collected: 08/31/21 09:35

Client ID: EP24_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	110	J	ug/kg	130	24.	1
Benzo(a)pyrene	110	J	ug/kg	170	51.	1
Benzo(b)fluoranthene	120	J	ug/kg	130	35.	1
Benzo(k)fluoranthene	45	J	ug/kg	130	34.	1
Chrysene	120	J	ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	130	41.	1
Benzo(ghi)perylene	110	J	ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	78	J	ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	80	J	ug/kg	170	29.	1
Pyrene	210		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	87.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	79.	1
4-Nitrophenol	ND		ug/kg	290	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-06
Client ID: EP24_1.5
Sample Location: BROOKLYN, NY
Date Collected: 08/31/21 09:35
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	ND		ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	32	9.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	105		10-136
4-Terphenyl-d14	84		18-120

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-06
Client ID: EP24_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:35
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/10/21 04:08
Analyst: HT
Percent Solids: 79%

Extraction Method: ALPHA 23528
Extraction Date: 09/09/21 09:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.618	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.618	0.057	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.309	0.048	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.618	0.065	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.309	0.056	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.309	0.075	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.309	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.618	0.222	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.618	0.169	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.309	0.093	1
Perfluorooctanesulfonic Acid (PFOS)	0.370		ng/g	0.309	0.161	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.309	0.083	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.618	0.355	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.618	0.249	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.618	0.058	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.618	0.189	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.618	0.121	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.618	0.104	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.618	0.087	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.618	0.253	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.618	0.067	1
PFOA/PFOS, Total	0.370		ng/g	0.309	0.052	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-06 Date Collected: 08/31/21 09:35

Client ID: EP24_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	93		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	87		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	101		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	94		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	90		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	87		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	87		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	96		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	77		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	69		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	87		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	103		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	59		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	78		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	40		24-159

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-07
Client ID: EP31_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:40
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/03/21 01:46
Analyst: IM
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 11:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-07 Date Collected: 08/31/21 09:40

Client ID: EP31_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	970	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	97.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-07 Date Collected: 08/31/21 09:40

Client ID: EP31_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	650	200	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	30	9.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	80		18-120

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-07
Client ID: EP31_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:40
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/10/21 04:24
Analyst: HT
Percent Solids: 81%

Extraction Method: ALPHA 23528
Extraction Date: 09/09/21 09:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.541	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.541	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.271	0.042	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.541	0.057	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.271	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.271	0.066	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.271	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.541	0.194	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.541	0.148	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.271	0.081	1
Perfluorooctanesulfonic Acid (PFOS)	0.189	J	ng/g	0.271	0.141	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.271	0.073	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.541	0.311	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.541	0.218	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.541	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.541	0.166	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.541	0.106	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.541	0.092	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.541	0.076	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.541	0.221	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.541	0.059	1
PFOA/PFOS, Total	0.189	J	ng/g	0.271	0.045	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-07 Date Collected: 08/31/21 09:40

Client ID: EP31_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	97		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	89		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	94		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	104		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	99		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	96		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	88		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	82		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	65		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	94		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	70		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	56		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	82		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	34		24-159

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-08
Client ID: EP32_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:45
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/03/21 01:24
Analyst: IM
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 11:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-08 Date Collected: 08/31/21 09:45

Client ID: EP32_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	970	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	97.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-08 Date Collected: 08/31/21 09:45

Client ID: EP32_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	200	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	30	9.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	89		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	109		10-136
4-Terphenyl-d14	100		18-120

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-08
Client ID: EP32_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:45
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/10/21 04:41
Analyst: HT
Percent Solids: 82%

Extraction Method: ALPHA 23528
Extraction Date: 09/09/21 09:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.540	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.540	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.270	0.042	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.540	0.057	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.270	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.270	0.065	1
Perfluorooctanoic Acid (PFOA)	0.091	J	ng/g	0.270	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.540	0.194	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.540	0.147	1
Perfluorononanoic Acid (PFNA)	0.084	J	ng/g	0.270	0.081	1
Perfluorooctanesulfonic Acid (PFOS)	2.38		ng/g	0.270	0.140	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.270	0.072	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.540	0.310	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.540	0.217	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.540	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.540	0.165	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.540	0.106	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.540	0.091	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.540	0.076	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.540	0.221	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.540	0.058	1
PFOA/PFOS, Total	2.47	J	ng/g	0.270	0.045	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-08 Date Collected: 08/31/21 09:45

Client ID: EP32_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	94		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	88		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	90		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	100		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	89		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	82		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	88		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	94		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	76		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	64		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	88		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	98		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	56		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	80		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	31		24-159

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-09
Client ID: EP39_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:50
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/03/21 03:36
Analyst: IM
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 11:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	26	J	ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	74.	1
Butyl benzyl phthalate	ND		ug/kg	210	54.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-09 Date Collected: 08/31/21 09:50

Client ID: EP39_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	45.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	26	J	ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	39.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	88.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	80.	1
4-Nitrophenol	ND		ug/kg	300	87.	1
2,4-Dinitrophenol	ND		ug/kg	1000	99.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	33.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-09 Date Collected: 08/31/21 09:50

Client ID: EP39_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	41.	1
Benzoic Acid	ND		ug/kg	690	220	1
Benzyl Alcohol	ND		ug/kg	210	65.	1
Carbazole	ND		ug/kg	210	21.	1
1,4-Dioxane	ND		ug/kg	32	9.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	89		30-120
2,4,6-Tribromophenol	111		10-136
4-Terphenyl-d14	87		18-120

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-09
Client ID: EP39_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:50
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/10/21 04:57
Analyst: HT
Percent Solids: 76%

Extraction Method: ALPHA 23528
Extraction Date: 09/09/21 09:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.647	0.029	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.647	0.060	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.324	0.051	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.647	0.068	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.324	0.058	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.324	0.078	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.324	0.054	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.647	0.232	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.647	0.177	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.324	0.097	1
Perfluorooctanesulfonic Acid (PFOS)	1.70		ng/g	0.324	0.168	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.324	0.087	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.647	0.372	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.647	0.261	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.647	0.061	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.647	0.198	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.647	0.127	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.647	0.109	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.647	0.091	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.647	0.265	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.647	0.070	1
PFOA/PFOS, Total	1.70		ng/g	0.324	0.054	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-09 Date Collected: 08/31/21 09:50

Client ID: EP39_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	92		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	85		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	89		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	96		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	91		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	87		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	83		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	84		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	76		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	68		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	89		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	102		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	55		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	81		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	42		24-159

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-10
Client ID: EP40_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:55
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/03/21 04:19
Analyst: IM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 11:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	120		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-10 Date Collected: 08/31/21 09:55

Client ID: EP40_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	48	J	ug/kg	120	22.	1
Benzo(a)pyrene	50	J	ug/kg	150	47.	1
Benzo(b)fluoranthene	60	J	ug/kg	120	32.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	49	J	ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	37.	1
Benzo(ghi)perylene	35	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	50	J	ug/kg	120	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	38	J	ug/kg	150	27.	1
Pyrene	110	J	ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-10
Client ID: EP40_1.5
Sample Location: BROOKLYN, NY
Date Collected: 08/31/21 09:55
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	8.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	105		10-136
4-Terphenyl-d14	81		18-120

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-10
Client ID: EP40_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:55
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/10/21 05:14
Analyst: HT
Percent Solids: 85%

Extraction Method: ALPHA 23528
Extraction Date: 09/09/21 09:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.537	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.537	0.049	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.269	0.042	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.537	0.056	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.269	0.048	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.269	0.065	1
Perfluorooctanoic Acid (PFOA)	0.134	J	ng/g	0.269	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.537	0.193	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.537	0.147	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.269	0.081	1
Perfluorooctanesulfonic Acid (PFOS)	0.326		ng/g	0.269	0.140	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.269	0.072	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.537	0.308	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.537	0.216	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.537	0.050	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.537	0.164	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.537	0.105	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.537	0.091	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.537	0.075	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.537	0.220	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.537	0.058	1
PFOA/PFOS, Total	0.460	J	ng/g	0.269	0.045	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-10 Date Collected: 08/31/21 09:55

Client ID: EP40_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	85		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	99		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	91		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	84		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	85		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	94		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	73		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	66		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	92		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	24		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	57		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	80		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	39		24-159

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-11
Client ID: FB01_083121
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:00
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 09/02/21 10:07
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 09/01/21 23:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	0.44	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Hexachlorobenzene	ND		ug/l	2.0	0.46	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
2-Chloronaphthalene	ND		ug/l	2.0	0.44	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
Fluoranthene	ND		ug/l	2.0	0.26	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorobutadiene	ND		ug/l	2.0	0.66	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Hexachloroethane	ND		ug/l	2.0	0.58	1
Isophorone	ND		ug/l	5.0	1.2	1
Naphthalene	ND		ug/l	2.0	0.46	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-11 Date Collected: 08/31/21 09:00

Client ID: FB01_083121 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Benzo(a)anthracene	ND		ug/l	2.0	0.32	1
Benzo(a)pyrene	ND		ug/l	2.0	0.41	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37	1
Chrysene	ND		ug/l	2.0	0.34	1
Acenaphthylene	ND		ug/l	2.0	0.46	1
Anthracene	ND		ug/l	2.0	0.33	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.30	1
Fluorene	ND		ug/l	2.0	0.41	1
Phenanthrene	ND		ug/l	2.0	0.33	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40	1
Pyrene	ND		ug/l	2.0	0.28	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
2-Methylnaphthalene	ND		ug/l	2.0	0.45	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Pentachlorophenol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-11 Date Collected: 08/31/21 09:00

Client ID: FB01_083121 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	56		15-120
2,4,6-Tribromophenol	58		10-120
4-Terphenyl-d14	66		41-149

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-11
Client ID: FB01_083121
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:00
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 09/07/21 08:50
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 09/03/21 10:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	134	30.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	43		15-110

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-11
Client ID: FB01_083121
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:00
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/08/21 20:28
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 09/08/21 04:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.87	0.381	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.87	0.370	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.87	0.222	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.87	0.307	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.87	0.210	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.87	0.352	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.87	0.221	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.87	1.24	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.87	0.643	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.87	0.292	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.87	0.471	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.87	0.284	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.87	1.13	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.87	0.606	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.87	0.243	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.87	0.916	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.87	0.542	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.87	0.752	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.87	0.348	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.87	0.306	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.87	0.232	1
PFOA/PFOS, Total	ND		ng/l	1.87	0.221	1

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-11 Date Collected: 08/31/21 09:00

Client ID: FB01_083121 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	96		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	92		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	86		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	84		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	89		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	83		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	83		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	91		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	86		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	85		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	64		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	85		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	35		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	65		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	79		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	70		22-136

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/01/21 16:16
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 08/31/21 13:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1541292-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/01/21 16:16
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 08/31/21 13:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1541292-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/01/21 16:16
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 08/31/21 13:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1541292-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	97		25-120
Phenol-d6	105		10-120
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	108		30-120
2,4,6-Tribromophenol	129		10-136
4-Terphenyl-d14	119		18-120

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/02/21 08:24
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 09/01/21 23:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1541983-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/02/21 08:24
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 09/01/21 23:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1541983-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/02/21 08:24
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 09/01/21 23:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1541983-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	38		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	59		15-120
2,4,6-Tribromophenol	53		10-120
4-Terphenyl-d14	64		41-149

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 09/06/21 23:45
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 09/03/21 10:06

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 11 Batch: WG1542626-1					
1,4-Dioxane	ND		ng/l	150	33.9

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	55		15-110

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/08/21 16:01
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 09/08/21 04:18

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 11 Batch: WG1543753-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	5.68		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/08/21 16:01
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 09/08/21 04:18

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 11 Batch: WG1543753-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	93		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	104		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	93		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	87		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	87		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	91		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	99		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	100		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	73		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	90		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	44		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	75		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	87		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	77		22-136

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/09/21 23:43
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 09/09/21 09:46

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-10 Batch: WG1544308-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/09/21 23:43
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 09/09/21 09:46

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-10 Batch: WG1544308-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	72		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	70		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	88		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	88		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	84		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	89		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	78		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	80		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	77		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	92		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	81		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	60		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	65		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	80		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	15		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	65		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	71		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	54		24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

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Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1541292-2 WG1541292-3								
Acenaphthene	105		107		31-137	2		50
1,2,4-Trichlorobenzene	106		104		38-107	2		50
Hexachlorobenzene	116		116		40-140	0		50
Bis(2-chloroethyl)ether	99		96		40-140	3		50
2-Chloronaphthalene	108		107		40-140	1		50
1,2-Dichlorobenzene	99		94		40-140	5		50
1,3-Dichlorobenzene	97		94		40-140	3		50
1,4-Dichlorobenzene	99		94		28-104	5		50
3,3'-Dichlorobenzidine	87		89		40-140	2		50
2,4-Dinitrotoluene	121		121		40-132	0		50
2,6-Dinitrotoluene	120		118		40-140	2		50
Fluoranthene	113		110		40-140	3		50
4-Chlorophenyl phenyl ether	110		110		40-140	0		50
4-Bromophenyl phenyl ether	118		116		40-140	2		50
Bis(2-chloroisopropyl)ether	85		85		40-140	0		50
Bis(2-chloroethoxy)methane	106		105		40-117	1		50
Hexachlorobutadiene	101		98		40-140	3		50
Hexachlorocyclopentadiene	106		105		40-140	1		50
Hexachloroethane	97		93		40-140	4		50
Isophorone	107		105		40-140	2		50
Naphthalene	101		100		40-140	1		50
Nitrobenzene	103		102		40-140	1		50
NDPA/DPA	113		112		36-157	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

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Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1541292-2 WG1541292-3								
n-Nitrosodi-n-propylamine	100		100		32-121	0		50
Bis(2-ethylhexyl)phthalate	119		119		40-140	0		50
Butyl benzyl phthalate	119		117		40-140	2		50
Di-n-butylphthalate	122		120		40-140	2		50
Di-n-octylphthalate	120		119		40-140	1		50
Diethyl phthalate	116		113		40-140	3		50
Dimethyl phthalate	118		117		40-140	1		50
Benzo(a)anthracene	104		106		40-140	2		50
Benzo(a)pyrene	111		110		40-140	1		50
Benzo(b)fluoranthene	115		109		40-140	5		50
Benzo(k)fluoranthene	110		112		40-140	2		50
Chrysene	107		107		40-140	0		50
Acenaphthylene	113		113		40-140	0		50
Anthracene	110		108		40-140	2		50
Benzo(ghi)perylene	113		113		40-140	0		50
Fluorene	112		110		40-140	2		50
Phenanthrene	108		107		40-140	1		50
Dibenzo(a,h)anthracene	113		113		40-140	0		50
Indeno(1,2,3-cd)pyrene	113		114		40-140	1		50
Pyrene	112		110		35-142	2		50
Biphenyl	112		112		37-127	0		50
4-Chloroaniline	64		67		40-140	5		50
2-Nitroaniline	116		118		47-134	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

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Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1541292-2 WG1541292-3								
3-Nitroaniline	96		95		26-129	1		50
4-Nitroaniline	109		109		41-125	0		50
Dibenzofuran	111		110		40-140	1		50
2-Methylnaphthalene	105		104		40-140	1		50
1,2,4,5-Tetrachlorobenzene	107		106		40-117	1		50
Acetophenone	105		105		14-144	0		50
2,4,6-Trichlorophenol	112		111		30-130	1		50
p-Chloro-m-cresol	**112**	Q	**113**	Q	26-103	1		50
2-Chlorophenol	**106**	Q	**106**	Q	25-102	0		50
2,4-Dichlorophenol	118		118		30-130	0		50
2,4-Dimethylphenol	114		114		30-130	0		50
2-Nitrophenol	115		116		30-130	1		50
4-Nitrophenol	**121**	Q	**120**	Q	11-114	1		50
2,4-Dinitrophenol	105		106		4-130	1		50
4,6-Dinitro-o-cresol	124		122		10-130	2		50
Pentachlorophenol	108		108		17-109	0		50
Phenol	**103**	Q	**104**	Q	26-90	1		50
2-Methylphenol	109		107		30-130.	2		50
3-Methylphenol/4-Methylphenol	111		113		30-130	2		50
2,4,5-Trichlorophenol	118		119		30-130	1		50
Benzoic Acid	55		64		10-110	15		50
Benzyl Alcohol	108		106		40-140	2		50
Carbazole	109		108		54-128	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1541292-2 WG1541292-3								
1,4-Dioxane	62		57		40-140	8		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	99		98		25-120
Phenol-d6	107		105		10-120
Nitrobenzene-d5	99		98		23-120
2-Fluorobiphenyl	106		105		30-120
2,4,6-Tribromophenol	125		125		10-136
4-Terphenyl-d14	114		112		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1541983-2 WG1541983-3								
Acenaphthene	70		57		37-111	20		30
1,2,4-Trichlorobenzene	64		59		39-98	8		30
Hexachlorobenzene	69		58		40-140	17		30
Bis(2-chloroethyl)ether	69		59		40-140	16		30
2-Chloronaphthalene	62		55		40-140	12		30
1,2-Dichlorobenzene	61		59		40-140	3		30
1,3-Dichlorobenzene	58		55		40-140	5		30
1,4-Dichlorobenzene	60		58		36-97	3		30
3,3'-Dichlorobenzidine	69		55		40-140	23		30
2,4-Dinitrotoluene	62		52		48-143	18		30
2,6-Dinitrotoluene	62		52		40-140	18		30
Fluoranthene	66		58		40-140	13		30
4-Chlorophenyl phenyl ether	70		58		40-140	19		30
4-Bromophenyl phenyl ether	71		55		40-140	25		30
Bis(2-chloroisopropyl)ether	66		58		40-140	13		30
Bis(2-chloroethoxy)methane	70		59		40-140	17		30
Hexachlorobutadiene	67		60		40-140	11		30
Hexachlorocyclopentadiene	54		46		40-140	16		30
Hexachloroethane	62		55		40-140	12		30
Isophorone	64		58		40-140	10		30
Naphthalene	66		59		40-140	11		30
Nitrobenzene	65		59		40-140	10		30
NDPA/DPA	71		57		40-140	22		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1541983-2 WG1541983-3								
n-Nitrosodi-n-propylamine	70		60		29-132	15		30
Bis(2-ethylhexyl)phthalate	75		61		40-140	21		30
Butyl benzyl phthalate	68		56		40-140	19		30
Di-n-butylphthalate	71		57		40-140	22		30
Di-n-octylphthalate	79		64		40-140	21		30
Diethyl phthalate	70		59		40-140	17		30
Dimethyl phthalate	62		54		40-140	14		30
Benzo(a)anthracene	73		58		40-140	23		30
Benzo(a)pyrene	76		62		40-140	20		30
Benzo(b)fluoranthene	76		63		40-140	19		30
Benzo(k)fluoranthene	74		57		40-140	26		30
Chrysene	73		58		40-140	23		30
Acenaphthylene	67		55		45-123	20		30
Anthracene	70		60		40-140	15		30
Benzo(ghi)perylene	72		62		40-140	15		30
Fluorene	69		58		40-140	17		30
Phenanthrene	70		60		40-140	15		30
Dibenzo(a,h)anthracene	72		57		40-140	23		30
Indeno(1,2,3-cd)pyrene	68		60		40-140	13		30
Pyrene	66		56		26-127	16		30
Biphenyl	70		57		40-140	20		30
4-Chloroaniline	69		54		40-140	24		30
2-Nitroaniline	61		54		52-143	12		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

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Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1541983-2 WG1541983-3								
3-Nitroaniline	63		52		25-145	19		30
4-Nitroaniline	64		51		51-143	23		30
Dibenzofuran	72		60		40-140	18		30
2-Methylnaphthalene	64		56		40-140	13		30
1,2,4,5-Tetrachlorobenzene	68		57		2-134	18		30
Acetophenone	68		63		39-129	8		30
2,4,6-Trichlorophenol	68		55		30-130	21		30
p-Chloro-m-cresol	68		56		23-97	19		30
2-Chlorophenol	68		60		27-123	13		30
2,4-Dichlorophenol	70		63		30-130	11		30
2,4-Dimethylphenol	73		63		30-130	15		30
2-Nitrophenol	66		59		30-130	11		30
4-Nitrophenol	61		48		10-80	24		30
2,4-Dinitrophenol	47		42		20-130	11		30
4,6-Dinitro-o-cresol	57		44		20-164	26		30
Pentachlorophenol	52		51		9-103	2		30
Phenol	48		44		12-110	9		30
2-Methylphenol	69		58		30-130	17		30
3-Methylphenol/4-Methylphenol	70		61		30-130	14		30
2,4,5-Trichlorophenol	66		54		30-130	20		30
Benzoic Acid	**7**	Q	14		10-164	**69**	Q	30
Benzyl Alcohol	61		57		26-116	7		30
Carbazole	70		64		55-144	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

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Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1541983-2 WG1541983-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	55		52		21-120
Phenol-d6	44		37		10-120
Nitrobenzene-d5	64		55		23-120
2-Fluorobiphenyl	60		52		15-120
2,4,6-Tribromophenol	71		58		10-120
4-Terphenyl-d14	64		53		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 11 Batch: WG1542626-2 WG1542626-3								
1,4-Dioxane	110		113		40-140	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	51		52		15-110

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 11 Batch: WG1543753-2								
Perfluorobutanoic Acid (PFBA)	101		-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	98		-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	102		-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	100		-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	100		-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	103		-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	107		-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	119		-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	99		-		61-179	-		30
Perfluorononanoic Acid (PFNA)	93		-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	107		-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	102		-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	118		-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	110		-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	102		-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	105		-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	101		-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	100		-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	103		-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	122		-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	106		-		59-182	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 11 Batch: WG1543753-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	87				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	101				62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	84				70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	82				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	81				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	85				71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	82				62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	90				14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94				59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	88				69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	88				62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	96				10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	71				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	90				55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	35				10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	73				27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	84				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	78				22-136

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 Batch: WG1544308-2								
Perfluorobutanoic Acid (PFBA)	100		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	96		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	100		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	100		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	99		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	102		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	100		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	106		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	93		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	97		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	106		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	103		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	98		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	106		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	103		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	95		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	99		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	99		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	98		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	116		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	104		-		69-133	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 Batch: WG1544308-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	83				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	79				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	98				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	79				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	86				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	97				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	88				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	70				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	67				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	87				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	30				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	73				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	78				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	58				24-159

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1543753-3 QC Sample: L2146865-01 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	6.70	36.5	43.7	101		-	-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	11.9	36.5	48.1	99		-	-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	3.05	32.4	36.1	102		-	-		65-157	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	34.2	39.5	115		-	-		37-219	-		30
Perfluorohexanoic Acid (PFHxA)	8.58	36.5	45.8	102		-	-		69-168	-		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	34.4	36.8	107		-	-		52-156	-		30
Perfluoroheptanoic Acid (PFHpA)	4.03	36.5	40.5	100		-	-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	1.02J	33.4	35.0	102		-	-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	14.0	36.5	53.1	107		-	-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	34.8	39.4	113		-	-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	34.8	36.5	105		-	-		61-179	-		30
Perfluorononanoic Acid (PFNA)	3.23	36.5	37.7	94		-	-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	19.9	33.9	54.9	103		-	-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	2.62	36.5	38.7	99		-	-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	35.1	36.5	104		-	-		56-173	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	35.2	34.7	99		-	-		48-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	36.5	38.4	105		-	-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	36.5	39.0	107		-	-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	35.2	35.4	100		-	-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	ND	36.5	36.1	99		-	-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	36.5	33.6	92		-	-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	ND	36.5	37.5	103		-	-		67-153	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1543753-3 QC Sample: L2146865-01 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	36.5	46.4	127		-	-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	36.5	40.3	110		-	-		59-182	-		30
Perfluorohexadecanoic Acid (PFHxDA)	ND	36.5	45.9	126		-	-		40-167	-		30
Perfluorooctadecanoic Acid (PFODA)	ND	36.5	19.6	54		-	-		10-119	-		30
Perfluorododecane Sulfonic Acid (PFDoDS)	ND	35.4	37.8	107		-	-		85-154	-		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	69				10-162
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	102				12-142
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	73				14-147
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	54				27-126
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	48				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	73				55-137
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	73				62-124
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	72				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	71				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	86				71-134
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	69				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	65				22-136
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	82				10-206
Perfluoro[13C4]Butanoic Acid (MPFBA)	71				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	79				62-163
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**5**	Q			10-112

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1543753-3 QC Sample: L2146865-01 Client ID: MS Sample												

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	85				69-131
Perfluoro[13C8]Octanoic Acid (M8PFOA)	68				62-129
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	74				59-139
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	83				70-131

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1544308-3 QC Sample: L2146753-01 Client ID: EP07_1.5												
Perfluorobutanoic Acid (PFBA)	ND	5.84	5.82	100		-	-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	ND	5.84	5.64	97		-	-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	5.19	5.12	99		-	-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	ND	5.84	5.92	101		-	-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.84	5.85	100		-	-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	5.34	5.57	104		-	-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	ND	5.84	6.12	105		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.56	5.70	102		-	-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.56	5.48	99		-	-		70-132	-		30
Perfluorononanoic Acid (PFNA)	ND	5.84	5.81	99		-	-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	ND	5.42	5.96	110		-	-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	ND	5.84	5.99	103		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.61	5.94	106		-	-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.84	6.10F	104		-	-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.84	6.16	105		-	-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.63	5.53	98		-	-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	ND	5.84	5.55	95		-	-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.84	6.49	111		-	-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	ND	5.84	5.85	100		-	-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	ND	5.84	7.05	121		-	-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.84	6.07	104		-	-		69-133	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1544308-3 QC Sample: L2146753-01 Client ID: EP07_1.5												

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	77				19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	92				20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	71				34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	79				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	93				61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95				75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	103				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	99				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	94				78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	85				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	59				24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	96				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	90				58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	97				10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99				79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	94				75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	89				72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	96				74-139

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1543753-4 QC Sample: L2146865-02 Client ID: DUP Sample						
Perfluorobutanoic Acid (PFBA)	6.64	6.62	ng/l	0		30
Perfluoropentanoic Acid (PFPeA)	6.86	6.65	ng/l	3		30
Perfluorobutanesulfonic Acid (PFBS)	27.9	27.8	ng/l	0		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	6.49	6.26	ng/l	4		30
Perfluoropentanesulfonic Acid (PFPeS)	0.288J	0.267J	ng/l	NC		30
Perfluoroheptanoic Acid (PFHpA)	6.78	6.56	ng/l	3		30
Perfluorohexanesulfonic Acid (PFHxS)	3.33	3.22	ng/l	3		30
Perfluorooctanoic Acid (PFOA)	42.5	43.0	ng/l	1		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/l	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	1.22J	1.15J	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	17.6	17.2	ng/l	2		30
Perfluorodecanoic Acid (PFDA)	0.453J	0.410J	ng/l	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/l	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/l	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1543753-4 QC Sample: L2146865-02 Client ID: DUP Sample						
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2.60	2.41	ng/l	8		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/l	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30
Perfluorohexadecanoic Acid (PFHxDA)	ND	ND	ng/l	NC		30
Perfluorooctadecanoic Acid (PFODA)	ND	ND	ng/l	NC		30
Perfluorododecane Sulfonic Acid (PFDoDS)	ND	ND	ng/l	NC		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	**54**	Q	58		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	66		71		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	93		86		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	77		70		12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	58		60		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	**57**	Q	**59**	Q	60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	96		86		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	**58**	Q	**58**	Q	62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	64		62		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	66		65		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	87		82		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	62		63		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	66		59		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	38		36		24-116

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1543753-4 QC Sample: L2146865-02 Client ID: DUP Sample

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	70		67		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**7**	Q	**9**	Q	10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	41		39		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	70		60		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	53		46		22-136
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	62		52		10-206

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1544308-4 QC Sample: L2146753-02 Client ID: EP08_1.5						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/g	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/g	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/g	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/g	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/g	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/g	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/g	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/g	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonic Acid (PFOS)	0.168J	0.216J	ng/g	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/g	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/g	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/g	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/g	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/g	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/g	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/g	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1544308-4 QC Sample: L2146753-02 Client ID: EP08_1.5						
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/g	NC		30
PFOA/PFOS, Total	0.168J	0.216J	ng/g	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100		94		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	93		87		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	98		93		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	108		100		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	104		96		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	100		97		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	96		90		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	91		90		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		87		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		100		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98		93		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	85		80		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	77		68		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	97		91		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	87		69		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	79		63		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	85		81		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	54		45		24-159

PCBS

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-01
Client ID: EP07_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:10
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/02/21 10:12
Analyst: JM
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 11:52
Cleanup Method: EPA 3665A
Cleanup Date: 09/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.2	3.48	1	A
Aroclor 1221	ND		ug/kg	39.2	3.93	1	A
Aroclor 1232	ND		ug/kg	39.2	8.31	1	A
Aroclor 1242	ND		ug/kg	39.2	5.28	1	A
Aroclor 1248	ND		ug/kg	39.2	5.88	1	A
Aroclor 1254	ND		ug/kg	39.2	4.29	1	A
Aroclor 1260	ND		ug/kg	39.2	7.24	1	A
Aroclor 1262	ND		ug/kg	39.2	4.98	1	A
Aroclor 1268	ND		ug/kg	39.2	4.06	1	A
PCBs, Total	ND		ug/kg	39.2	3.48	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-02
Client ID: EP08_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:15
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/02/21 10:21
Analyst: JM
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 11:52
Cleanup Method: EPA 3665A
Cleanup Date: 09/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.6	3.78	1	A
Aroclor 1221	ND		ug/kg	42.6	4.27	1	A
Aroclor 1232	ND		ug/kg	42.6	9.03	1	A
Aroclor 1242	ND		ug/kg	42.6	5.74	1	A
Aroclor 1248	ND		ug/kg	42.6	6.39	1	A
Aroclor 1254	ND		ug/kg	42.6	4.66	1	A
Aroclor 1260	ND		ug/kg	42.6	7.87	1	A
Aroclor 1262	ND		ug/kg	42.6	5.41	1	A
Aroclor 1268	ND		ug/kg	42.6	4.41	1	A
PCBs, Total	ND		ug/kg	42.6	3.78	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-03
Client ID: EP15_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:20
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/02/21 10:29
Analyst: JM
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 11:52
Cleanup Method: EPA 3665A
Cleanup Date: 09/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.5	3.60	1	A
Aroclor 1221	ND		ug/kg	40.5	4.06	1	A
Aroclor 1232	ND		ug/kg	40.5	8.59	1	A
Aroclor 1242	ND		ug/kg	40.5	5.46	1	A
Aroclor 1248	ND		ug/kg	40.5	6.08	1	A
Aroclor 1254	ND		ug/kg	40.5	4.43	1	A
Aroclor 1260	ND		ug/kg	40.5	7.48	1	A
Aroclor 1262	ND		ug/kg	40.5	5.14	1	A
Aroclor 1268	ND		ug/kg	40.5	4.20	1	A
PCBs, Total	ND		ug/kg	40.5	3.60	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-04
Client ID: EP16_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:25
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/02/21 10:39
Analyst: JM
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 11:52
Cleanup Method: EPA 3665A
Cleanup Date: 09/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.2	3.57	1	A
Aroclor 1221	ND		ug/kg	40.2	4.03	1	A
Aroclor 1232	ND		ug/kg	40.2	8.52	1	A
Aroclor 1242	ND		ug/kg	40.2	5.42	1	A
Aroclor 1248	ND		ug/kg	40.2	6.03	1	A
Aroclor 1254	ND		ug/kg	40.2	4.40	1	A
Aroclor 1260	ND		ug/kg	40.2	7.43	1	A
Aroclor 1262	ND		ug/kg	40.2	5.10	1	A
Aroclor 1268	ND		ug/kg	40.2	4.16	1	A
PCBs, Total	ND		ug/kg	40.2	3.57	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-05
Client ID: EP23_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:30
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/02/21 10:48
Analyst: JM
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 11:52
Cleanup Method: EPA 3665A
Cleanup Date: 09/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.4	3.41	1	A
Aroclor 1221	ND		ug/kg	38.4	3.85	1	A
Aroclor 1232	ND		ug/kg	38.4	8.14	1	A
Aroclor 1242	ND		ug/kg	38.4	5.18	1	A
Aroclor 1248	ND		ug/kg	38.4	5.76	1	A
Aroclor 1254	ND		ug/kg	38.4	4.20	1	A
Aroclor 1260	ND		ug/kg	38.4	7.10	1	A
Aroclor 1262	ND		ug/kg	38.4	4.88	1	A
Aroclor 1268	ND		ug/kg	38.4	3.98	1	A
PCBs, Total	ND		ug/kg	38.4	3.41	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	52		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-06
Client ID: EP24_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:35
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/02/21 10:57
Analyst: JM
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 11:52
Cleanup Method: EPA 3665A
Cleanup Date: 09/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.9	3.72	1	A
Aroclor 1221	ND		ug/kg	41.9	4.20	1	A
Aroclor 1232	ND		ug/kg	41.9	8.88	1	A
Aroclor 1242	ND		ug/kg	41.9	5.65	1	A
Aroclor 1248	ND		ug/kg	41.9	6.29	1	A
Aroclor 1254	ND		ug/kg	41.9	4.58	1	A
Aroclor 1260	ND		ug/kg	41.9	7.74	1	A
Aroclor 1262	ND		ug/kg	41.9	5.32	1	A
Aroclor 1268	ND		ug/kg	41.9	4.34	1	A
PCBs, Total	ND		ug/kg	41.9	3.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-07
Client ID: EP31_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:40
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/02/21 11:06
Analyst: JM
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 11:52
Cleanup Method: EPA 3665A
Cleanup Date: 09/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.2	3.57	1	A
Aroclor 1221	ND		ug/kg	40.2	4.03	1	A
Aroclor 1232	ND		ug/kg	40.2	8.52	1	A
Aroclor 1242	ND		ug/kg	40.2	5.42	1	A
Aroclor 1248	ND		ug/kg	40.2	6.03	1	A
Aroclor 1254	ND		ug/kg	40.2	4.40	1	A
Aroclor 1260	ND		ug/kg	40.2	7.43	1	A
Aroclor 1262	ND		ug/kg	40.2	5.10	1	A
Aroclor 1268	ND		ug/kg	40.2	4.16	1	A
PCBs, Total	ND		ug/kg	40.2	3.57	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-08
Client ID: EP32_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:45
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/02/21 11:16
Analyst: JM
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 11:52
Cleanup Method: EPA 3665A
Cleanup Date: 09/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.4	3.59	1	A
Aroclor 1221	ND		ug/kg	40.4	4.05	1	A
Aroclor 1232	ND		ug/kg	40.4	8.57	1	A
Aroclor 1242	ND		ug/kg	40.4	5.45	1	A
Aroclor 1248	ND		ug/kg	40.4	6.06	1	A
Aroclor 1254	ND		ug/kg	40.4	4.42	1	A
Aroclor 1260	ND		ug/kg	40.4	7.47	1	A
Aroclor 1262	ND		ug/kg	40.4	5.13	1	A
Aroclor 1268	ND		ug/kg	40.4	4.19	1	A
PCBs, Total	ND		ug/kg	40.4	3.59	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-09
Client ID: EP39_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:50
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/02/21 11:25
Analyst: JM
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 11:52
Cleanup Method: EPA 3665A
Cleanup Date: 09/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	43.0	3.82	1	A
Aroclor 1221	ND		ug/kg	43.0	4.31	1	A
Aroclor 1232	ND		ug/kg	43.0	9.12	1	A
Aroclor 1242	ND		ug/kg	43.0	5.80	1	A
Aroclor 1248	ND		ug/kg	43.0	6.45	1	A
Aroclor 1254	ND		ug/kg	43.0	4.71	1	A
Aroclor 1260	ND		ug/kg	43.0	7.95	1	A
Aroclor 1262	ND		ug/kg	43.0	5.46	1	A
Aroclor 1268	ND		ug/kg	43.0	4.46	1	A
PCBs, Total	ND		ug/kg	43.0	3.82	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-10
Client ID: EP40_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:55
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/02/21 11:34
Analyst: JM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 11:52
Cleanup Method: EPA 3665A
Cleanup Date: 09/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.4	3.32	1	A
Aroclor 1221	ND		ug/kg	37.4	3.75	1	A
Aroclor 1232	ND		ug/kg	37.4	7.93	1	A
Aroclor 1242	ND		ug/kg	37.4	5.04	1	A
Aroclor 1248	ND		ug/kg	37.4	5.61	1	A
Aroclor 1254	ND		ug/kg	37.4	4.09	1	A
Aroclor 1260	ND		ug/kg	37.4	6.92	1	A
Aroclor 1262	ND		ug/kg	37.4	4.75	1	A
Aroclor 1268	ND		ug/kg	37.4	3.88	1	A
PCBs, Total	ND		ug/kg	37.4	3.32	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-11
Client ID: FB01_083121
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:00
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 09/03/21 12:37
Analyst: CW

Extraction Method: EPA 3510C
Extraction Date: 09/01/21 11:11
Cleanup Method: EPA 3665A
Cleanup Date: 09/01/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 09/01/21 21:36
Analyst: AD

Extraction Method: EPA 3546
Extraction Date: 08/31/21 14:11
Cleanup Method: EPA 3665A
Cleanup Date: 09/01/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/01/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-10 Batch: WG1541298-1						
Aroclor 1016	ND		ug/kg	33.3	2.95	A
Aroclor 1221	ND		ug/kg	33.3	3.33	A
Aroclor 1232	ND		ug/kg	33.3	7.05	A
Aroclor 1242	ND		ug/kg	33.3	4.48	A
Aroclor 1248	ND		ug/kg	33.3	4.99	A
Aroclor 1254	ND		ug/kg	33.3	3.64	A
Aroclor 1260	ND		ug/kg	33.3	6.15	A
Aroclor 1262	ND		ug/kg	33.3	4.22	A
Aroclor 1268	ND		ug/kg	33.3	3.45	A
PCBs, Total	ND		ug/kg	33.3	2.95	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 09/02/21 19:19
Analyst: CW

Extraction Method: EPA 3510C
Extraction Date: 09/01/21 11:11
Cleanup Method: EPA 3665A
Cleanup Date: 09/01/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 11 Batch: WG1541714-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	76		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-10 Batch: WG1541298-2 WG1541298-3									
Aroclor 1016	95		79		40-140	18		50	A
Aroclor 1260	90		75		40-140	18		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		72		30-150	A
Decachlorobiphenyl	86		71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		76		30-150	B
Decachlorobiphenyl	89		72		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 11 Batch: WG1541714-2 WG1541714-3									
Aroclor 1016	89		94		40-140	6		50	A
Aroclor 1260	86		91		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		90		30-150	A
Decachlorobiphenyl	70		50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		87		30-150	B
Decachlorobiphenyl	78		56		30-150	B

PESTICIDES

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-01
Client ID: EP07_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:10
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/03/21 16:48
Analyst: AR
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 12:51
Cleanup Method: EPA 3620B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.95	0.382	1	A
Lindane	ND		ug/kg	0.813	0.364	1	A
Alpha-BHC	ND		ug/kg	0.813	0.231	1	A
Beta-BHC	ND		ug/kg	1.95	0.740	1	A
Heptachlor	ND		ug/kg	0.976	0.438	1	A
Aldrin	ND		ug/kg	1.95	0.687	1	A
Heptachlor epoxide	ND		ug/kg	3.66	1.10	1	A
Endrin	ND		ug/kg	0.813	0.333	1	A
Endrin aldehyde	ND		ug/kg	2.44	0.854	1	A
Endrin ketone	ND		ug/kg	1.95	0.503	1	A
Dieldrin	ND		ug/kg	1.22	0.610	1	A
4,4'-DDE	ND		ug/kg	1.95	0.451	1	A
4,4'-DDD	ND		ug/kg	1.95	0.696	1	A
4,4'-DDT	ND		ug/kg	3.66	1.57	1	A
Endosulfan I	ND		ug/kg	1.95	0.461	1	A
Endosulfan II	ND		ug/kg	1.95	0.652	1	A
Endosulfan sulfate	ND		ug/kg	0.813	0.387	1	A
Methoxychlor	ND		ug/kg	3.66	1.14	1	A
Toxaphene	ND		ug/kg	36.6	10.2	1	A
cis-Chlordane	ND		ug/kg	2.44	0.680	1	A
trans-Chlordane	ND		ug/kg	2.44	0.644	1	A
Chlordane	ND		ug/kg	16.3	6.47	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-01 Date Collected: 08/31/21 09:10

Client ID: EP07_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	90		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-01
Client ID: EP07_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:10
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/04/21 23:21
Analyst: AR
Percent Solids: 81%
Methylation Date: 09/04/21 14:45

Extraction Method: EPA 8151A
Extraction Date: 09/02/21 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	200	12.6	1	A
2,4,5-T	ND		ug/kg	200	6.21	1	A
2,4,5-TP (Silvex)	ND		ug/kg	200	5.33	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	85		30-150	A
DCAA	80		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-02
Client ID: EP08_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:15
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/03/21 16:58
Analyst: AR
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 12:51
Cleanup Method: EPA 3620B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.12	0.416	1	A
Lindane	ND		ug/kg	0.885	0.396	1	A
Alpha-BHC	ND		ug/kg	0.885	0.251	1	A
Beta-BHC	ND		ug/kg	2.12	0.805	1	A
Heptachlor	ND		ug/kg	1.06	0.476	1	A
Aldrin	ND		ug/kg	2.12	0.748	1	A
Heptachlor epoxide	ND		ug/kg	3.98	1.19	1	A
Endrin	ND		ug/kg	0.885	0.363	1	A
Endrin aldehyde	ND		ug/kg	2.65	0.929	1	A
Endrin ketone	ND		ug/kg	2.12	0.547	1	A
Dieldrin	ND		ug/kg	1.33	0.664	1	A
4,4'-DDE	ND		ug/kg	2.12	0.491	1	A
4,4'-DDD	ND		ug/kg	2.12	0.757	1	A
4,4'-DDT	ND		ug/kg	3.98	1.71	1	A
Endosulfan I	ND		ug/kg	2.12	0.502	1	A
Endosulfan II	ND		ug/kg	2.12	0.710	1	A
Endosulfan sulfate	ND		ug/kg	0.885	0.421	1	A
Methoxychlor	ND		ug/kg	3.98	1.24	1	A
Toxaphene	ND		ug/kg	39.8	11.1	1	A
cis-Chlordane	ND		ug/kg	2.65	0.740	1	A
trans-Chlordane	ND		ug/kg	2.65	0.701	1	A
Chlordane	ND		ug/kg	17.7	7.03	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-02 Date Collected: 08/31/21 09:15

Client ID: EP08_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	116		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-02
Client ID: EP08_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:15
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/04/21 23:39
Analyst: AR
Percent Solids: 74%
Methylation Date: 09/04/21 14:45

Extraction Method: EPA 8151A
Extraction Date: 09/02/21 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	219	13.8	1	A
2,4,5-T	ND		ug/kg	219	6.78	1	A
2,4,5-TP (Silvex)	ND		ug/kg	219	5.82	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	76		30-150	A
DCAA	81		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-03
Client ID: EP15_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:20
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/03/21 17:09
Analyst: AR
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 12:51
Cleanup Method: EPA 3620B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.97	0.385	1	A
Lindane	ND		ug/kg	0.820	0.366	1	A
Alpha-BHC	ND		ug/kg	0.820	0.233	1	A
Beta-BHC	ND		ug/kg	1.97	0.746	1	A
Heptachlor	ND		ug/kg	0.984	0.441	1	A
Aldrin	ND		ug/kg	1.97	0.693	1	A
Heptachlor epoxide	ND		ug/kg	3.69	1.11	1	A
Endrin	ND		ug/kg	0.820	0.336	1	A
Endrin aldehyde	ND		ug/kg	2.46	0.861	1	A
Endrin ketone	ND		ug/kg	1.97	0.507	1	A
Dieldrin	ND		ug/kg	1.23	0.615	1	A
4,4'-DDE	ND		ug/kg	1.97	0.455	1	A
4,4'-DDD	ND		ug/kg	1.97	0.702	1	A
4,4'-DDT	ND		ug/kg	3.69	1.58	1	A
Endosulfan I	ND		ug/kg	1.97	0.465	1	A
Endosulfan II	ND		ug/kg	1.97	0.657	1	A
Endosulfan sulfate	ND		ug/kg	0.820	0.390	1	A
Methoxychlor	ND		ug/kg	3.69	1.15	1	A
Toxaphene	ND		ug/kg	36.9	10.3	1	A
cis-Chlordane	ND		ug/kg	2.46	0.685	1	A
trans-Chlordane	ND		ug/kg	2.46	0.649	1	A
Chlordane	ND		ug/kg	16.4	6.52	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-03 Date Collected: 08/31/21 09:20

Client ID: EP15_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-03
Client ID: EP15_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:20
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/05/21 00:53
Analyst: AR
Percent Solids: 81%
Methylation Date: 09/04/21 14:45

Extraction Method: EPA 8151A
Extraction Date: 09/02/21 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	203	12.8	1	A
2,4,5-T	ND		ug/kg	203	6.30	1	A
2,4,5-TP (Silvex)	ND		ug/kg	203	5.40	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	70		30-150	A
DCAA	75		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-04
Client ID: EP16_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:25
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/03/21 17:20
Analyst: AR
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 12:51
Cleanup Method: EPA 3620B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.00	0.393	1	A
Lindane	ND		ug/kg	0.835	0.373	1	A
Alpha-BHC	ND		ug/kg	0.835	0.237	1	A
Beta-BHC	ND		ug/kg	2.00	0.760	1	A
Heptachlor	ND		ug/kg	1.00	0.449	1	A
Aldrin	ND		ug/kg	2.00	0.706	1	A
Heptachlor epoxide	ND		ug/kg	3.76	1.13	1	A
Endrin	ND		ug/kg	0.835	0.342	1	A
Endrin aldehyde	ND		ug/kg	2.51	0.877	1	A
Endrin ketone	ND		ug/kg	2.00	0.516	1	A
Dieldrin	ND		ug/kg	1.25	0.626	1	A
4,4'-DDE	ND		ug/kg	2.00	0.464	1	A
4,4'-DDD	ND		ug/kg	2.00	0.715	1	A
4,4'-DDT	ND		ug/kg	3.76	1.61	1	A
Endosulfan I	ND		ug/kg	2.00	0.474	1	A
Endosulfan II	ND		ug/kg	2.00	0.670	1	A
Endosulfan sulfate	ND		ug/kg	0.835	0.398	1	A
Methoxychlor	ND		ug/kg	3.76	1.17	1	A
Toxaphene	ND		ug/kg	37.6	10.5	1	A
cis-Chlordane	ND		ug/kg	2.51	0.698	1	A
trans-Chlordane	ND		ug/kg	2.51	0.662	1	A
Chlordane	ND		ug/kg	16.7	6.64	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-04 Date Collected: 08/31/21 09:25

Client ID: EP16_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-04
Client ID: EP16_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:25
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/05/21 01:11
Analyst: AR
Percent Solids: 80%
Methylation Date: 09/04/21 14:45

Extraction Method: EPA 8151A
Extraction Date: 09/02/21 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	204	12.8	1	A
2,4,5-T	ND		ug/kg	204	6.32	1	A
2,4,5-TP (Silvex)	ND		ug/kg	204	5.42	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	67		30-150	A
DCAA	69		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-05
Client ID: EP23_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:30
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/03/21 17:32
Analyst: AR
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 12:51
Cleanup Method: EPA 3620B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.89	0.370	1	A
Lindane	ND		ug/kg	0.787	0.352	1	A
Alpha-BHC	ND		ug/kg	0.787	0.224	1	A
Beta-BHC	ND		ug/kg	1.89	0.716	1	A
Heptachlor	ND		ug/kg	0.945	0.424	1	A
Aldrin	ND		ug/kg	1.89	0.665	1	A
Heptachlor epoxide	ND		ug/kg	3.54	1.06	1	A
Endrin	ND		ug/kg	0.787	0.323	1	A
Endrin aldehyde	ND		ug/kg	2.36	0.827	1	A
Endrin ketone	ND		ug/kg	1.89	0.486	1	A
Dieldrin	ND		ug/kg	1.18	0.590	1	A
4,4'-DDE	ND		ug/kg	1.89	0.437	1	A
4,4'-DDD	ND		ug/kg	1.89	0.674	1	A
4,4'-DDT	ND		ug/kg	3.54	1.52	1	A
Endosulfan I	ND		ug/kg	1.89	0.446	1	A
Endosulfan II	ND		ug/kg	1.89	0.631	1	A
Endosulfan sulfate	ND		ug/kg	0.787	0.375	1	A
Methoxychlor	ND		ug/kg	3.54	1.10	1	A
Toxaphene	ND		ug/kg	35.4	9.92	1	A
cis-Chlordane	ND		ug/kg	2.36	0.658	1	A
trans-Chlordane	ND		ug/kg	2.36	0.624	1	A
Chlordane	ND		ug/kg	15.7	6.26	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-05 Date Collected: 08/31/21 09:30

Client ID: EP23_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-05
Client ID: EP23_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:30
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/05/21 01:29
Analyst: AR
Percent Solids: 84%
Methylation Date: 09/04/21 14:45

Extraction Method: EPA 8151A
Extraction Date: 09/02/21 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	196	12.3	1	A
2,4,5-T	ND		ug/kg	196	6.07	1	A
2,4,5-TP (Silvex)	ND		ug/kg	196	5.21	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	73		30-150	A
DCAA	77		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-06
Client ID: EP24_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:35
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/03/21 17:42
Analyst: AR
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 12:51
Cleanup Method: EPA 3620B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.00	0.392	1	A
Lindane	ND		ug/kg	0.835	0.373	1	A
Alpha-BHC	ND		ug/kg	0.835	0.237	1	A
Beta-BHC	ND		ug/kg	2.00	0.760	1	A
Heptachlor	ND		ug/kg	1.00	0.449	1	A
Aldrin	ND		ug/kg	2.00	0.705	1	A
Heptachlor epoxide	ND		ug/kg	3.76	1.13	1	A
Endrin	ND		ug/kg	0.835	0.342	1	A
Endrin aldehyde	ND		ug/kg	2.50	0.876	1	A
Endrin ketone	ND		ug/kg	2.00	0.516	1	A
Dieldrin	ND		ug/kg	1.25	0.626	1	A
4,4'-DDE	ND		ug/kg	2.00	0.463	1	A
4,4'-DDD	ND		ug/kg	2.00	0.715	1	A
4,4'-DDT	ND		ug/kg	3.76	1.61	1	A
Endosulfan I	ND		ug/kg	2.00	0.473	1	A
Endosulfan II	ND		ug/kg	2.00	0.670	1	A
Endosulfan sulfate	ND		ug/kg	0.835	0.397	1	A
Methoxychlor	ND		ug/kg	3.76	1.17	1	A
Toxaphene	ND		ug/kg	37.6	10.5	1	A
cis-Chlordane	ND		ug/kg	2.50	0.698	1	A
trans-Chlordane	ND		ug/kg	2.50	0.661	1	A
Chlordane	ND		ug/kg	16.7	6.64	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-06 Date Collected: 08/31/21 09:35

Client ID: EP24_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-06
Client ID: EP24_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:35
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/05/21 01:48
Analyst: AR
Percent Solids: 79%
Methylation Date: 09/04/21 14:45

Extraction Method: EPA 8151A
Extraction Date: 09/02/21 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	206	13.0	1	A
2,4,5-T	ND		ug/kg	206	6.40	1	A
2,4,5-TP (Silvex)	ND		ug/kg	206	5.49	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	64		30-150	A
DCAA	68		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-07
Client ID: EP31_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:40
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/04/21 15:09
Analyst: AR
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 12:51
Cleanup Method: EPA 3620B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.91	0.374	1	A
Lindane	ND		ug/kg	0.796	0.356	1	A
Alpha-BHC	ND		ug/kg	0.796	0.226	1	A
Beta-BHC	ND		ug/kg	1.91	0.725	1	A
Heptachlor	ND		ug/kg	0.956	0.428	1	A
Aldrin	ND		ug/kg	1.91	0.673	1	A
Heptachlor epoxide	ND		ug/kg	3.58	1.08	1	A
Endrin	ND		ug/kg	0.796	0.327	1	A
Endrin aldehyde	ND		ug/kg	2.39	0.836	1	A
Endrin ketone	ND		ug/kg	1.91	0.492	1	A
Dieldrin	ND		ug/kg	1.19	0.597	1	A
4,4'-DDE	ND		ug/kg	1.91	0.442	1	A
4,4'-DDD	ND		ug/kg	1.91	0.682	1	A
4,4'-DDT	ND		ug/kg	3.58	1.54	1	A
Endosulfan I	ND		ug/kg	1.91	0.452	1	A
Endosulfan II	ND		ug/kg	1.91	0.639	1	A
Endosulfan sulfate	ND		ug/kg	0.796	0.379	1	A
Methoxychlor	ND		ug/kg	3.58	1.12	1	A
Toxaphene	ND		ug/kg	35.8	10.0	1	A
cis-Chlordane	ND		ug/kg	2.39	0.666	1	A
trans-Chlordane	ND		ug/kg	2.39	0.631	1	A
Chlordane	ND		ug/kg	15.9	6.33	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-07 Date Collected: 08/31/21 09:40

Client ID: EP31_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	89		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-07
Client ID: EP31_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:40
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/05/21 02:06
Analyst: AR
Percent Solids: 81%
Methylation Date: 09/04/21 14:45

Extraction Method: EPA 8151A
Extraction Date: 09/02/21 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	202	12.7	1	A
2,4,5-T	ND		ug/kg	202	6.27	1	A
2,4,5-TP (Silvex)	ND		ug/kg	202	5.38	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	80		30-150	A
DCAA	75		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-08
Client ID: EP32_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:45
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/04/21 14:36
Analyst: AR
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 12:51
Cleanup Method: EPA 3620B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.87	0.366	1	A
Lindane	ND		ug/kg	0.778	0.348	1	A
Alpha-BHC	ND		ug/kg	0.778	0.221	1	A
Beta-BHC	ND		ug/kg	1.87	0.708	1	A
Heptachlor	ND		ug/kg	0.933	0.418	1	A
Aldrin	ND		ug/kg	1.87	0.657	1	A
Heptachlor epoxide	ND		ug/kg	3.50	1.05	1	A
Endrin	ND		ug/kg	0.778	0.319	1	A
Endrin aldehyde	ND		ug/kg	2.33	0.817	1	A
Endrin ketone	ND		ug/kg	1.87	0.481	1	A
Dieldrin	ND		ug/kg	1.17	0.583	1	A
4,4'-DDE	ND		ug/kg	1.87	0.432	1	A
4,4'-DDD	ND		ug/kg	1.87	0.666	1	A
4,4'-DDT	ND		ug/kg	3.50	1.50	1	A
Endosulfan I	ND		ug/kg	1.87	0.441	1	A
Endosulfan II	ND		ug/kg	1.87	0.624	1	A
Endosulfan sulfate	ND		ug/kg	0.778	0.370	1	A
Methoxychlor	ND		ug/kg	3.50	1.09	1	A
Toxaphene	ND		ug/kg	35.0	9.80	1	A
cis-Chlordane	ND		ug/kg	2.33	0.650	1	A
trans-Chlordane	ND		ug/kg	2.33	0.616	1	A
Chlordane	ND		ug/kg	15.6	6.18	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-08 Date Collected: 08/31/21 09:45

Client ID: EP32_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	33		30-150	A
Decachlorobiphenyl	35		30-150	A
2,4,5,6-Tetrachloro-m-xylene	34		30-150	B
Decachlorobiphenyl	32		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-08
Client ID: EP32_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:45
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/05/21 02:24
Analyst: AR
Percent Solids: 82%
Methylation Date: 09/04/21 14:45

Extraction Method: EPA 8151A
Extraction Date: 09/02/21 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	200	12.6	1	A
2,4,5-T	ND		ug/kg	200	6.21	1	A
2,4,5-TP (Silvex)	ND		ug/kg	200	5.33	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	74		30-150	A
DCAA	72		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-09
Client ID: EP39_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:50
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/04/21 14:47
Analyst: AR
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 12:51
Cleanup Method: EPA 3620B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.06	0.403	1	A
Lindane	ND		ug/kg	0.857	0.383	1	A
Alpha-BHC	ND		ug/kg	0.857	0.243	1	A
Beta-BHC	ND		ug/kg	2.06	0.780	1	A
Heptachlor	ND		ug/kg	1.03	0.461	1	A
Aldrin	ND		ug/kg	2.06	0.724	1	A
Heptachlor epoxide	ND		ug/kg	3.86	1.16	1	A
Endrin	ND		ug/kg	0.857	0.351	1	A
Endrin aldehyde	ND		ug/kg	2.57	0.900	1	A
Endrin ketone	ND		ug/kg	2.06	0.530	1	A
Dieldrin	ND		ug/kg	1.28	0.643	1	A
4,4'-DDE	ND		ug/kg	2.06	0.476	1	A
4,4'-DDD	ND		ug/kg	2.06	0.734	1	A
4,4'-DDT	ND		ug/kg	3.86	1.65	1	A
Endosulfan I	ND		ug/kg	2.06	0.486	1	A
Endosulfan II	ND		ug/kg	2.06	0.687	1	A
Endosulfan sulfate	ND		ug/kg	0.857	0.408	1	A
Methoxychlor	ND		ug/kg	3.86	1.20	1	A
Toxaphene	ND		ug/kg	38.6	10.8	1	A
cis-Chlordane	ND		ug/kg	2.57	0.717	1	A
trans-Chlordane	ND		ug/kg	2.57	0.679	1	A
Chlordane	ND		ug/kg	17.1	6.81	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-09 Date Collected: 08/31/21 09:50

Client ID: EP39_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-09
Client ID: EP39_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:50
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/05/21 02:42
Analyst: AR
Percent Solids: 76%
Methylation Date: 09/04/21 14:45

Extraction Method: EPA 8151A
Extraction Date: 09/02/21 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	216	13.6	1	A
2,4,5-T	ND		ug/kg	216	6.69	1	A
2,4,5-TP (Silvex)	ND		ug/kg	216	5.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	72		30-150	A
DCAA	75		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-10
Client ID: EP40_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:55
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/04/21 14:58
Analyst: AR
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 09/01/21 12:51
Cleanup Method: EPA 3620B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.84	0.361	1	A
Lindane	ND		ug/kg	0.767	0.343	1	A
Alpha-BHC	ND		ug/kg	0.767	0.218	1	A
Beta-BHC	ND		ug/kg	1.84	0.698	1	A
Heptachlor	ND		ug/kg	0.921	0.413	1	A
Aldrin	ND		ug/kg	1.84	0.648	1	A
Heptachlor epoxide	ND		ug/kg	3.45	1.04	1	A
Endrin	ND		ug/kg	0.767	0.315	1	A
Endrin aldehyde	ND		ug/kg	2.30	0.806	1	A
Endrin ketone	ND		ug/kg	1.84	0.474	1	A
Dieldrin	ND		ug/kg	1.15	0.576	1	A
4,4'-DDE	ND		ug/kg	1.84	0.426	1	A
4,4'-DDD	ND		ug/kg	1.84	0.657	1	A
4,4'-DDT	ND		ug/kg	3.45	1.48	1	A
Endosulfan I	ND		ug/kg	1.84	0.435	1	A
Endosulfan II	ND		ug/kg	1.84	0.615	1	A
Endosulfan sulfate	ND		ug/kg	0.767	0.365	1	A
Methoxychlor	ND		ug/kg	3.45	1.07	1	A
Toxaphene	ND		ug/kg	34.5	9.67	1	A
cis-Chlordane	ND		ug/kg	2.30	0.642	1	A
trans-Chlordane	ND		ug/kg	2.30	0.608	1	A
Chlordane	ND		ug/kg	15.3	6.10	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-10 Date Collected: 08/31/21 09:55

Client ID: EP40_1.5 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	89		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-10
Client ID: EP40_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:55
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/05/21 03:01
Analyst: AR
Percent Solids: 85%
Methylation Date: 09/04/21 14:45

Extraction Method: EPA 8151A
Extraction Date: 09/02/21 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	193	12.2	1	A
2,4,5-T	ND		ug/kg	193	5.99	1	A
2,4,5-TP (Silvex)	ND		ug/kg	193	5.14	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	63		30-150	A
DCAA	68		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-11
Client ID: FB01_083121
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:00
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 09/02/21 19:35
Analyst: SDC

Extraction Method: EPA 3510C
Extraction Date: 09/01/21 08:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-11 Date Collected: 08/31/21 09:00

Client ID: FB01_083121 Date Received: 08/31/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	47		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-11
Client ID: FB01_083121
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:00
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 09/07/21 11:24
Analyst: AR

Extraction Method: EPA 8151A
Extraction Date: 09/04/21 08:51

Methylation Date: 09/04/21 22:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	75		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/02/21 18:53
Analyst: SDC

Extraction Method: EPA 3510C
Extraction Date: 09/01/21 08:59

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 11 Batch: WG1541622-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/02/21 18:53
Analyst: SDC

Extraction Method: EPA 3510C
Extraction Date: 09/01/21 08:59

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 11 Batch: WG1541622-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	45		30-150	A
Decachlorobiphenyl	37		30-150	A
2,4,5,6-Tetrachloro-m-xylene	43		30-150	B
Decachlorobiphenyl	34		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/03/21 15:52
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 09/01/21 12:51
Cleanup Method: EPA 3620B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-10 Batch: WG1541779-1						
Delta-BHC	ND		ug/kg	1.60	0.312	A
Lindane	ND		ug/kg	0.665	0.297	A
Alpha-BHC	ND		ug/kg	0.665	0.189	A
Beta-BHC	ND		ug/kg	1.60	0.605	A
Heptachlor	ND		ug/kg	0.798	0.358	A
Aldrin	ND		ug/kg	1.60	0.562	A
Heptachlor epoxide	ND		ug/kg	2.99	0.898	A
Endrin	ND		ug/kg	0.665	0.273	A
Endrin aldehyde	ND		ug/kg	1.99	0.698	A
Endrin ketone	ND		ug/kg	1.60	0.411	A
Dieldrin	ND		ug/kg	0.997	0.499	A
4,4'-DDE	ND		ug/kg	1.60	0.369	A
4,4'-DDD	ND		ug/kg	1.60	0.569	A
4,4'-DDT	ND		ug/kg	2.99	1.28	A
Endosulfan I	ND		ug/kg	1.60	0.377	A
Endosulfan II	ND		ug/kg	1.60	0.533	A
Endosulfan sulfate	ND		ug/kg	0.665	0.316	A
Methoxychlor	ND		ug/kg	2.99	0.931	A
Toxaphene	ND		ug/kg	29.9	8.38	A
cis-Chlordane	ND		ug/kg	1.99	0.556	A
trans-Chlordane	ND		ug/kg	1.99	0.526	A
Chlordane	ND		ug/kg	13.3	5.28	A

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/03/21 15:52
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 09/01/21 12:51
Cleanup Method: EPA 3620B
Cleanup Date: 09/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-10 Batch: WG1541779-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	94		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 09/04/21 19:59
Analyst: AR

Extraction Method: EPA 8151A
Extraction Date: 09/02/21 15:02

Methylation Date: 09/04/21 14:45

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-10 Batch: WG1542364-1						
2,4-D	ND		ug/kg	163	10.2	A
2,4,5-T	ND		ug/kg	163	5.04	A
2,4,5-TP (Silvex)	ND		ug/kg	163	4.33	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	75		30-150	A
DCAA	71		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 09/07/21 10:29
Analyst: AR

Extraction Method: EPA 8151A
Extraction Date: 09/04/21 08:51

Methylation Date: 09/04/21 22:15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 11 Batch: WG1543044-1						
2,4-D	ND		ug/l	10.0	0.498	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	82		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 11 Batch: WG1541622-2 WG1541622-3									
Delta-BHC	56		64		30-150	12		20	A
Lindane	57		62		30-150	8		20	A
Alpha-BHC	58		61		30-150	6		20	A
Beta-BHC	52		59		30-150	12		20	A
Heptachlor	54		57		30-150	6		20	A
Aldrin	55		62		30-150	11		20	A
Heptachlor epoxide	52		58		30-150	12		20	A
Endrin	52		62		30-150	16		20	A
Endrin aldehyde	48		59		30-150	19		20	A
Endrin ketone	61		67		30-150	10		20	A
Dieldrin	57		65		30-150	13		20	A
4,4'-DDE	55		64		30-150	14		20	A
4,4'-DDD	61		71		30-150	15		20	A
4,4'-DDT	58		68		30-150	16		20	A
Endosulfan I	51		58		30-150	13		20	A
Endosulfan II	57		65		30-150	14		20	A
Endosulfan sulfate	55		66		30-150	17		20	A
Methoxychlor	58		69		30-150	18		20	A
cis-Chlordane	50		57		30-150	14		20	A
trans-Chlordane	49		56		30-150	13		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 11 Batch: WG1541622-2 WG1541622-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		59		30-150	A
Decachlorobiphenyl	46		52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		56		30-150	B
Decachlorobiphenyl	45		50		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-10 Batch: WG1541779-2 WG1541779-3									
Delta-BHC	69		75		30-150	8		30	A
Lindane	70		73		30-150	4		30	A
Alpha-BHC	72		76		30-150	5		30	A
Beta-BHC	71		74		30-150	4		30	A
Heptachlor	74		80		30-150	8		30	A
Aldrin	67		71		30-150	6		30	A
Heptachlor epoxide	68		72		30-150	6		30	A
Endrin	69		73		30-150	6		30	A
Endrin aldehyde	39		42		30-150	7		30	A
Endrin ketone	62		67		30-150	8		30	A
Dieldrin	72		74		30-150	3		30	A
4,4'-DDE	64		68		30-150	6		30	A
4,4'-DDD	67		72		30-150	7		30	A
4,4'-DDT	65		69		30-150	6		30	A
Endosulfan I	63		67		30-150	6		30	A
Endosulfan II	63		68		30-150	8		30	A
Endosulfan sulfate	54		58		30-150	7		30	A
Methoxychlor	60		63		30-150	5		30	A
cis-Chlordane	56		59		30-150	5		30	A
trans-Chlordane	66		69		30-150	4		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-10 Batch: WG1541779-2 WG1541779-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		68		30-150	A
Decachlorobiphenyl	60		67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		71		30-150	B
Decachlorobiphenyl	72		84		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-10 Batch: WG1542364-2 WG1542364-3									
2,4-D	84		66		30-150	24		30	A
2,4,5-T	74		63		30-150	16		30	A
2,4,5-TP (Silvex)	75		62		30-150	19		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	77		78		30-150	A
DCAA	85		71		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 11 Batch: WG1543044-2 WG1543044-3									
2,4-D	78		80		30-150	3		25	A
2,4,5-T	81		81		30-150	0		25	A
2,4,5-TP (Silvex)	81		77		30-150	5		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	103		148		30-150	A
DCAA	96		117		30-150	B

METALS

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-01
Client ID: EP07_1.5
Sample Location: BROOKLYN, NY
Date Collected: 08/31/21 09:10
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	763		mg/kg	9.29	2.51	2	09/01/21 19:55	09/04/21 14:29	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.64	0.353	2	09/01/21 19:55	09/04/21 14:29	EPA 3050B	1,6010D	SV
Arsenic, Total	0.446	J	mg/kg	0.929	0.193	2	09/01/21 19:55	09/04/21 14:29	EPA 3050B	1,6010D	SV
Barium, Total	4.82		mg/kg	0.929	0.162	2	09/01/21 19:55	09/04/21 14:29	EPA 3050B	1,6010D	SV
Beryllium, Total	0.046	J	mg/kg	0.464	0.031	2	09/01/21 19:55	09/04/21 14:29	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.929	0.091	2	09/01/21 19:55	09/04/21 14:29	EPA 3050B	1,6010D	SV
Calcium, Total	301		mg/kg	9.29	3.25	2	09/01/21 19:55	09/04/21 14:29	EPA 3050B	1,6010D	SV
Chromium, Total	3.23		mg/kg	0.929	0.089	2	09/01/21 19:55	09/04/21 14:29	EPA 3050B	1,6010D	SV
Cobalt, Total	0.539	J	mg/kg	1.86	0.154	2	09/01/21 19:55	09/04/21 14:29	EPA 3050B	1,6010D	SV
Copper, Total	2.02		mg/kg	0.929	0.240	2	09/01/21 19:55	09/04/21 14:29	EPA 3050B	1,6010D	SV
Iron, Total	1200		mg/kg	4.64	0.839	2	09/01/21 19:55	09/04/21 14:29	EPA 3050B	1,6010D	SV
Lead, Total	5.11		mg/kg	4.64	0.249	2	09/01/21 19:55	09/04/21 14:29	EPA 3050B	1,6010D	SV
Magnesium, Total	311		mg/kg	9.29	1.43	2	09/01/21 19:55	09/04/21 14:29	EPA 3050B	1,6010D	SV
Manganese, Total	12.3		mg/kg	0.929	0.148	2	09/01/21 19:55	09/04/21 14:29	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.086	0.056	1	09/01/21 20:25	09/04/21 14:02	EPA 7471B	1,7471B	NB
Nickel, Total	1.69	J	mg/kg	2.32	0.225	2	09/01/21 19:55	09/04/21 14:29	EPA 3050B	1,6010D	SV
Potassium, Total	122	J	mg/kg	232	13.4	2	09/01/21 19:55	09/04/21 14:29	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.86	0.240	2	09/01/21 19:55	09/04/21 14:29	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.929	0.263	2	09/01/21 19:55	09/04/21 14:29	EPA 3050B	1,6010D	SV
Sodium, Total	22.4	J	mg/kg	186	2.93	2	09/01/21 19:55	09/04/21 14:29	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.86	0.293	2	09/01/21 19:55	09/04/21 14:29	EPA 3050B	1,6010D	SV
Vanadium, Total	2.38		mg/kg	0.929	0.189	2	09/01/21 19:55	09/04/21 14:29	EPA 3050B	1,6010D	SV
Zinc, Total	106		mg/kg	4.64	0.272	2	09/01/21 19:55	09/04/21 14:29	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	3.2		mg/kg	0.99	0.99	1		09/04/21 14:29	NA	107,-	

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-02
Client ID: EP08_1.5
Sample Location: BROOKLYN, NY
Date Collected: 08/31/21 09:15
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	376		mg/kg	10.4	2.80	2	09/01/21 19:55	09/04/21 14:33	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	5.18	0.393	2	09/01/21 19:55	09/04/21 14:33	EPA 3050B	1,6010D	SV
Arsenic, Total	0.217	J	mg/kg	1.04	0.215	2	09/01/21 19:55	09/04/21 14:33	EPA 3050B	1,6010D	SV
Barium, Total	4.31		mg/kg	1.04	0.180	2	09/01/21 19:55	09/04/21 14:33	EPA 3050B	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.518	0.034	2	09/01/21 19:55	09/04/21 14:33	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	1.04	0.101	2	09/01/21 19:55	09/04/21 14:33	EPA 3050B	1,6010D	SV
Calcium, Total	259		mg/kg	10.4	3.62	2	09/01/21 19:55	09/04/21 14:33	EPA 3050B	1,6010D	SV
Chromium, Total	2.29		mg/kg	1.04	0.099	2	09/01/21 19:55	09/04/21 14:33	EPA 3050B	1,6010D	SV
Cobalt, Total	0.342	J	mg/kg	2.07	0.172	2	09/01/21 19:55	09/04/21 14:33	EPA 3050B	1,6010D	SV
Copper, Total	1.09		mg/kg	1.04	0.267	2	09/01/21 19:55	09/04/21 14:33	EPA 3050B	1,6010D	SV
Iron, Total	646		mg/kg	5.18	0.935	2	09/01/21 19:55	09/04/21 14:33	EPA 3050B	1,6010D	SV
Lead, Total	1.74	J	mg/kg	5.18	0.277	2	09/01/21 19:55	09/04/21 14:33	EPA 3050B	1,6010D	SV
Magnesium, Total	156		mg/kg	10.4	1.59	2	09/01/21 19:55	09/04/21 14:33	EPA 3050B	1,6010D	SV
Manganese, Total	7.92		mg/kg	1.04	0.165	2	09/01/21 19:55	09/04/21 14:33	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.091	0.060	1	09/01/21 20:25	09/04/21 14:05	EPA 7471B	1,7471B	NB
Nickel, Total	0.673	J	mg/kg	2.59	0.250	2	09/01/21 19:55	09/04/21 14:33	EPA 3050B	1,6010D	SV
Potassium, Total	76.4	J	mg/kg	259	14.9	2	09/01/21 19:55	09/04/21 14:33	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	2.07	0.267	2	09/01/21 19:55	09/04/21 14:33	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	1.04	0.293	2	09/01/21 19:55	09/04/21 14:33	EPA 3050B	1,6010D	SV
Sodium, Total	15.4	J	mg/kg	207	3.26	2	09/01/21 19:55	09/04/21 14:33	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	2.07	0.326	2	09/01/21 19:55	09/04/21 14:33	EPA 3050B	1,6010D	SV
Vanadium, Total	1.86		mg/kg	1.04	0.210	2	09/01/21 19:55	09/04/21 14:33	EPA 3050B	1,6010D	SV
Zinc, Total	65.2		mg/kg	5.18	0.303	2	09/01/21 19:55	09/04/21 14:33	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.3		mg/kg	1.1	1.1	1		09/04/21 14:33	NA	107,-	

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-03
Client ID: EP15_1.5
Sample Location: BROOKLYN, NY
Date Collected: 08/31/21 09:20
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	407		mg/kg	9.40	2.54	2	09/01/21 19:55	09/04/21 14:37	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.70	0.357	2	09/01/21 19:55	09/04/21 14:37	EPA 3050B	1,6010D	SV
Arsenic, Total	ND		mg/kg	0.940	0.195	2	09/01/21 19:55	09/04/21 14:37	EPA 3050B	1,6010D	SV
Barium, Total	1.72		mg/kg	0.940	0.163	2	09/01/21 19:55	09/04/21 14:37	EPA 3050B	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.470	0.031	2	09/01/21 19:55	09/04/21 14:37	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.940	0.092	2	09/01/21 19:55	09/04/21 14:37	EPA 3050B	1,6010D	SV
Calcium, Total	270		mg/kg	9.40	3.29	2	09/01/21 19:55	09/04/21 14:37	EPA 3050B	1,6010D	SV
Chromium, Total	1.98		mg/kg	0.940	0.090	2	09/01/21 19:55	09/04/21 14:37	EPA 3050B	1,6010D	SV
Cobalt, Total	0.357	J	mg/kg	1.88	0.156	2	09/01/21 19:55	09/04/21 14:37	EPA 3050B	1,6010D	SV
Copper, Total	ND		mg/kg	0.940	0.242	2	09/01/21 19:55	09/04/21 14:37	EPA 3050B	1,6010D	SV
Iron, Total	748		mg/kg	4.70	0.848	2	09/01/21 19:55	09/04/21 14:37	EPA 3050B	1,6010D	SV
Lead, Total	0.930	J	mg/kg	4.70	0.252	2	09/01/21 19:55	09/04/21 14:37	EPA 3050B	1,6010D	SV
Magnesium, Total	191		mg/kg	9.40	1.45	2	09/01/21 19:55	09/04/21 14:37	EPA 3050B	1,6010D	SV
Manganese, Total	8.29		mg/kg	0.940	0.149	2	09/01/21 19:55	09/04/21 14:37	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.089	0.058	1	09/01/21 20:25	09/04/21 14:08	EPA 7471B	1,7471B	NB
Nickel, Total	0.733	J	mg/kg	2.35	0.227	2	09/01/21 19:55	09/04/21 14:37	EPA 3050B	1,6010D	SV
Potassium, Total	98.2	J	mg/kg	235	13.5	2	09/01/21 19:55	09/04/21 14:37	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.88	0.242	2	09/01/21 19:55	09/04/21 14:37	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.940	0.266	2	09/01/21 19:55	09/04/21 14:37	EPA 3050B	1,6010D	SV
Sodium, Total	20.6	J	mg/kg	188	2.96	2	09/01/21 19:55	09/04/21 14:37	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.88	0.296	2	09/01/21 19:55	09/04/21 14:37	EPA 3050B	1,6010D	SV
Vanadium, Total	1.79		mg/kg	0.940	0.191	2	09/01/21 19:55	09/04/21 14:37	EPA 3050B	1,6010D	SV
Zinc, Total	16.0		mg/kg	4.70	0.275	2	09/01/21 19:55	09/04/21 14:37	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.0		mg/kg	0.99	0.99	1		09/04/21 14:37	NA	107,-	

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-04
Client ID: EP16_1.5
Sample Location: BROOKLYN, NY
Date Collected: 08/31/21 09:25
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	474		mg/kg	9.70	2.62	2	09/01/21 19:55	09/04/21 14:41	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.85	0.368	2	09/01/21 19:55	09/04/21 14:41	EPA 3050B	1,6010D	SV
Arsenic, Total	0.427	J	mg/kg	0.970	0.202	2	09/01/21 19:55	09/04/21 14:41	EPA 3050B	1,6010D	SV
Barium, Total	2.36		mg/kg	0.970	0.169	2	09/01/21 19:55	09/04/21 14:41	EPA 3050B	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.485	0.032	2	09/01/21 19:55	09/04/21 14:41	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.970	0.095	2	09/01/21 19:55	09/04/21 14:41	EPA 3050B	1,6010D	SV
Calcium, Total	236		mg/kg	9.70	3.39	2	09/01/21 19:55	09/04/21 14:41	EPA 3050B	1,6010D	SV
Chromium, Total	2.15		mg/kg	0.970	0.093	2	09/01/21 19:55	09/04/21 14:41	EPA 3050B	1,6010D	SV
Cobalt, Total	0.407	J	mg/kg	1.94	0.161	2	09/01/21 19:55	09/04/21 14:41	EPA 3050B	1,6010D	SV
Copper, Total	0.504	J	mg/kg	0.970	0.250	2	09/01/21 19:55	09/04/21 14:41	EPA 3050B	1,6010D	SV
Iron, Total	1030		mg/kg	4.85	0.876	2	09/01/21 19:55	09/04/21 14:41	EPA 3050B	1,6010D	SV
Lead, Total	1.03	J	mg/kg	4.85	0.260	2	09/01/21 19:55	09/04/21 14:41	EPA 3050B	1,6010D	SV
Magnesium, Total	201		mg/kg	9.70	1.49	2	09/01/21 19:55	09/04/21 14:41	EPA 3050B	1,6010D	SV
Manganese, Total	9.44		mg/kg	0.970	0.154	2	09/01/21 19:55	09/04/21 14:41	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.086	0.056	1	09/01/21 20:25	09/04/21 14:12	EPA 7471B	1,7471B	NB
Nickel, Total	0.853	J	mg/kg	2.42	0.235	2	09/01/21 19:55	09/04/21 14:41	EPA 3050B	1,6010D	SV
Potassium, Total	111	J	mg/kg	242	14.0	2	09/01/21 19:55	09/04/21 14:41	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.94	0.250	2	09/01/21 19:55	09/04/21 14:41	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.970	0.274	2	09/01/21 19:55	09/04/21 14:41	EPA 3050B	1,6010D	SV
Sodium, Total	22.5	J	mg/kg	194	3.05	2	09/01/21 19:55	09/04/21 14:41	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.94	0.305	2	09/01/21 19:55	09/04/21 14:41	EPA 3050B	1,6010D	SV
Vanadium, Total	2.06		mg/kg	0.970	0.197	2	09/01/21 19:55	09/04/21 14:41	EPA 3050B	1,6010D	SV
Zinc, Total	31.9		mg/kg	4.85	0.284	2	09/01/21 19:55	09/04/21 14:41	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.2		mg/kg	1.0	1.0	1		09/04/21 14:41	NA	107,-	

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-05
Client ID: EP23_1.5
Sample Location: BROOKLYN, NY
Date Collected: 08/31/21 09:30
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	393		mg/kg	8.88	2.40	2	09/01/21 19:55	09/04/21 14:45	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.44	0.338	2	09/01/21 19:55	09/04/21 14:45	EPA 3050B	1,6010D	SV
Arsenic, Total	0.293	J	mg/kg	0.888	0.185	2	09/01/21 19:55	09/04/21 14:45	EPA 3050B	1,6010D	SV
Barium, Total	1.97		mg/kg	0.888	0.154	2	09/01/21 19:55	09/04/21 14:45	EPA 3050B	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.444	0.029	2	09/01/21 19:55	09/04/21 14:45	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.888	0.087	2	09/01/21 19:55	09/04/21 14:45	EPA 3050B	1,6010D	SV
Calcium, Total	257		mg/kg	8.88	3.11	2	09/01/21 19:55	09/04/21 14:45	EPA 3050B	1,6010D	SV
Chromium, Total	2.18		mg/kg	0.888	0.085	2	09/01/21 19:55	09/04/21 14:45	EPA 3050B	1,6010D	SV
Cobalt, Total	0.400	J	mg/kg	1.78	0.147	2	09/01/21 19:55	09/04/21 14:45	EPA 3050B	1,6010D	SV
Copper, Total	0.364	J	mg/kg	0.888	0.229	2	09/01/21 19:55	09/04/21 14:45	EPA 3050B	1,6010D	SV
Iron, Total	787		mg/kg	4.44	0.802	2	09/01/21 19:55	09/04/21 14:45	EPA 3050B	1,6010D	SV
Lead, Total	1.54	J	mg/kg	4.44	0.238	2	09/01/21 19:55	09/04/21 14:45	EPA 3050B	1,6010D	SV
Magnesium, Total	178		mg/kg	8.88	1.37	2	09/01/21 19:55	09/04/21 14:45	EPA 3050B	1,6010D	SV
Manganese, Total	8.47		mg/kg	0.888	0.141	2	09/01/21 19:55	09/04/21 14:45	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.081	0.053	1	09/01/21 20:25	09/04/21 14:15	EPA 7471B	1,7471B	NB
Nickel, Total	0.799	J	mg/kg	2.22	0.215	2	09/01/21 19:55	09/04/21 14:45	EPA 3050B	1,6010D	SV
Potassium, Total	83.9	J	mg/kg	222	12.8	2	09/01/21 19:55	09/04/21 14:45	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.78	0.229	2	09/01/21 19:55	09/04/21 14:45	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.888	0.251	2	09/01/21 19:55	09/04/21 14:45	EPA 3050B	1,6010D	SV
Sodium, Total	16.6	J	mg/kg	178	2.80	2	09/01/21 19:55	09/04/21 14:45	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.78	0.280	2	09/01/21 19:55	09/04/21 14:45	EPA 3050B	1,6010D	SV
Vanadium, Total	2.10		mg/kg	0.888	0.180	2	09/01/21 19:55	09/04/21 14:45	EPA 3050B	1,6010D	SV
Zinc, Total	14.6		mg/kg	4.44	0.260	2	09/01/21 19:55	09/04/21 14:45	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.2		mg/kg	0.95	0.95	1		09/04/21 14:45	NA	107,-	

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-06
Client ID: EP24_1.5
Sample Location: BROOKLYN, NY
Date Collected: 08/31/21 09:35
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	450		mg/kg	9.88	2.67	2	09/01/21 19:55	09/04/21 14:49	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.94	0.375	2	09/01/21 19:55	09/04/21 14:49	EPA 3050B	1,6010D	SV
Arsenic, Total	0.850	J	mg/kg	0.988	0.206	2	09/01/21 19:55	09/04/21 14:49	EPA 3050B	1,6010D	SV
Barium, Total	7.52		mg/kg	0.988	0.172	2	09/01/21 19:55	09/04/21 14:49	EPA 3050B	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.494	0.033	2	09/01/21 19:55	09/04/21 14:49	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.988	0.097	2	09/01/21 19:55	09/04/21 14:49	EPA 3050B	1,6010D	SV
Calcium, Total	426		mg/kg	9.88	3.46	2	09/01/21 19:55	09/04/21 14:49	EPA 3050B	1,6010D	SV
Chromium, Total	4.52		mg/kg	0.988	0.095	2	09/01/21 19:55	09/04/21 14:49	EPA 3050B	1,6010D	SV
Cobalt, Total	0.672	J	mg/kg	1.98	0.164	2	09/01/21 19:55	09/04/21 14:49	EPA 3050B	1,6010D	SV
Copper, Total	3.34		mg/kg	0.988	0.255	2	09/01/21 19:55	09/04/21 14:49	EPA 3050B	1,6010D	SV
Iron, Total	1780		mg/kg	4.94	0.892	2	09/01/21 19:55	09/04/21 14:49	EPA 3050B	1,6010D	SV
Lead, Total	9.33		mg/kg	4.94	0.265	2	09/01/21 19:55	09/04/21 14:49	EPA 3050B	1,6010D	SV
Magnesium, Total	191		mg/kg	9.88	1.52	2	09/01/21 19:55	09/04/21 14:49	EPA 3050B	1,6010D	SV
Manganese, Total	21.0		mg/kg	0.988	0.157	2	09/01/21 19:55	09/04/21 14:49	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.086	0.056	1	09/01/21 20:25	09/04/21 14:18	EPA 7471B	1,7471B	NB
Nickel, Total	0.998	J	mg/kg	2.47	0.239	2	09/01/21 19:55	09/04/21 14:49	EPA 3050B	1,6010D	SV
Potassium, Total	76.7	J	mg/kg	247	14.2	2	09/01/21 19:55	09/04/21 14:49	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.98	0.255	2	09/01/21 19:55	09/04/21 14:49	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.988	0.280	2	09/01/21 19:55	09/04/21 14:49	EPA 3050B	1,6010D	SV
Sodium, Total	17.2	J	mg/kg	198	3.11	2	09/01/21 19:55	09/04/21 14:49	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.98	0.311	2	09/01/21 19:55	09/04/21 14:49	EPA 3050B	1,6010D	SV
Vanadium, Total	5.28		mg/kg	0.988	0.200	2	09/01/21 19:55	09/04/21 14:49	EPA 3050B	1,6010D	SV
Zinc, Total	21.9		mg/kg	4.94	0.290	2	09/01/21 19:55	09/04/21 14:49	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	4.5		mg/kg	1.0	1.0	1		09/04/21 14:49	NA	107,-	

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-07
Client ID: EP31_1.5
Sample Location: BROOKLYN, NY
Date Collected: 08/31/21 09:40
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	434		mg/kg	9.80	2.65	2	09/01/21 19:55	09/04/21 14:54	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.90	0.372	2	09/01/21 19:55	09/04/21 14:54	EPA 3050B	1,6010D	SV
Arsenic, Total	0.265	J	mg/kg	0.980	0.204	2	09/01/21 19:55	09/04/21 14:54	EPA 3050B	1,6010D	SV
Barium, Total	3.20		mg/kg	0.980	0.171	2	09/01/21 19:55	09/04/21 14:54	EPA 3050B	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.490	0.032	2	09/01/21 19:55	09/04/21 14:54	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.980	0.096	2	09/01/21 19:55	09/04/21 14:54	EPA 3050B	1,6010D	SV
Calcium, Total	269		mg/kg	9.80	3.43	2	09/01/21 19:55	09/04/21 14:54	EPA 3050B	1,6010D	SV
Chromium, Total	2.18		mg/kg	0.980	0.094	2	09/01/21 19:55	09/04/21 14:54	EPA 3050B	1,6010D	SV
Cobalt, Total	0.422	J	mg/kg	1.96	0.163	2	09/01/21 19:55	09/04/21 14:54	EPA 3050B	1,6010D	SV
Copper, Total	0.569	J	mg/kg	0.980	0.253	2	09/01/21 19:55	09/04/21 14:54	EPA 3050B	1,6010D	SV
Iron, Total	933		mg/kg	4.90	0.885	2	09/01/21 19:55	09/04/21 14:54	EPA 3050B	1,6010D	SV
Lead, Total	1.03	J	mg/kg	4.90	0.263	2	09/01/21 19:55	09/04/21 14:54	EPA 3050B	1,6010D	SV
Magnesium, Total	193		mg/kg	9.80	1.51	2	09/01/21 19:55	09/04/21 14:54	EPA 3050B	1,6010D	SV
Manganese, Total	9.89		mg/kg	0.980	0.156	2	09/01/21 19:55	09/04/21 14:54	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.087	0.057	1	09/01/21 20:25	09/04/21 14:22	EPA 7471B	1,7471B	NB
Nickel, Total	0.804	J	mg/kg	2.45	0.237	2	09/01/21 19:55	09/04/21 14:54	EPA 3050B	1,6010D	SV
Potassium, Total	100	J	mg/kg	245	14.1	2	09/01/21 19:55	09/04/21 14:54	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.96	0.253	2	09/01/21 19:55	09/04/21 14:54	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.980	0.277	2	09/01/21 19:55	09/04/21 14:54	EPA 3050B	1,6010D	SV
Sodium, Total	15.3	J	mg/kg	196	3.09	2	09/01/21 19:55	09/04/21 14:54	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.96	0.309	2	09/01/21 19:55	09/04/21 14:54	EPA 3050B	1,6010D	SV
Vanadium, Total	2.16		mg/kg	0.980	0.199	2	09/01/21 19:55	09/04/21 14:54	EPA 3050B	1,6010D	SV
Zinc, Total	25.7		mg/kg	4.90	0.287	2	09/01/21 19:55	09/04/21 14:54	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.2		mg/kg	0.98	0.99	1		09/04/21 14:54	NA	107,-	

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-08
Client ID: EP32_1.5
Sample Location: BROOKLYN, NY
Date Collected: 08/31/21 09:45
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	406		mg/kg	9.65	2.60	2	09/01/21 19:55	09/04/21 14:58	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.82	0.367	2	09/01/21 19:55	09/04/21 14:58	EPA 3050B	1,6010D	SV
Arsenic, Total	0.492	J	mg/kg	0.965	0.201	2	09/01/21 19:55	09/04/21 14:58	EPA 3050B	1,6010D	SV
Barium, Total	1.59		mg/kg	0.965	0.168	2	09/01/21 19:55	09/04/21 14:58	EPA 3050B	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.482	0.032	2	09/01/21 19:55	09/04/21 14:58	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.965	0.095	2	09/01/21 19:55	09/04/21 14:58	EPA 3050B	1,6010D	SV
Calcium, Total	377		mg/kg	9.65	3.38	2	09/01/21 19:55	09/04/21 14:58	EPA 3050B	1,6010D	SV
Chromium, Total	2.89		mg/kg	0.965	0.093	2	09/01/21 19:55	09/04/21 14:58	EPA 3050B	1,6010D	SV
Cobalt, Total	0.434	J	mg/kg	1.93	0.160	2	09/01/21 19:55	09/04/21 14:58	EPA 3050B	1,6010D	SV
Copper, Total	ND		mg/kg	0.965	0.249	2	09/01/21 19:55	09/04/21 14:58	EPA 3050B	1,6010D	SV
Iron, Total	934		mg/kg	4.82	0.871	2	09/01/21 19:55	09/04/21 14:58	EPA 3050B	1,6010D	SV
Lead, Total	1.79	J	mg/kg	4.82	0.258	2	09/01/21 19:55	09/04/21 14:58	EPA 3050B	1,6010D	SV
Magnesium, Total	175		mg/kg	9.65	1.48	2	09/01/21 19:55	09/04/21 14:58	EPA 3050B	1,6010D	SV
Manganese, Total	11.8		mg/kg	0.965	0.153	2	09/01/21 19:55	09/04/21 14:58	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.081	0.053	1	09/01/21 20:25	09/04/21 14:25	EPA 7471B	1,7471B	NB
Nickel, Total	0.695	J	mg/kg	2.41	0.233	2	09/01/21 19:55	09/04/21 14:58	EPA 3050B	1,6010D	SV
Potassium, Total	77.6	J	mg/kg	241	13.9	2	09/01/21 19:55	09/04/21 14:58	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.93	0.249	2	09/01/21 19:55	09/04/21 14:58	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.965	0.273	2	09/01/21 19:55	09/04/21 14:58	EPA 3050B	1,6010D	SV
Sodium, Total	17.0	J	mg/kg	193	3.04	2	09/01/21 19:55	09/04/21 14:58	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.93	0.304	2	09/01/21 19:55	09/04/21 14:58	EPA 3050B	1,6010D	SV
Vanadium, Total	2.54		mg/kg	0.965	0.196	2	09/01/21 19:55	09/04/21 14:58	EPA 3050B	1,6010D	SV
Zinc, Total	10.7		mg/kg	4.82	0.283	2	09/01/21 19:55	09/04/21 14:58	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.9		mg/kg	0.98	0.98	1		09/04/21 14:58	NA	107,-	

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-09
Client ID: EP39_1.5
Sample Location: BROOKLYN, NY
Date Collected: 08/31/21 09:50
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	416		mg/kg	10.2	2.76	2	09/01/21 19:55	09/04/21 15:02	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	5.12	0.389	2	09/01/21 19:55	09/04/21 15:02	EPA 3050B	1,6010D	SV
Arsenic, Total	0.235	J	mg/kg	1.02	0.213	2	09/01/21 19:55	09/04/21 15:02	EPA 3050B	1,6010D	SV
Barium, Total	1.80		mg/kg	1.02	0.178	2	09/01/21 19:55	09/04/21 15:02	EPA 3050B	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.512	0.034	2	09/01/21 19:55	09/04/21 15:02	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	1.02	0.100	2	09/01/21 19:55	09/04/21 15:02	EPA 3050B	1,6010D	SV
Calcium, Total	201		mg/kg	10.2	3.58	2	09/01/21 19:55	09/04/21 15:02	EPA 3050B	1,6010D	SV
Chromium, Total	1.78		mg/kg	1.02	0.098	2	09/01/21 19:55	09/04/21 15:02	EPA 3050B	1,6010D	SV
Cobalt, Total	0.450	J	mg/kg	2.05	0.170	2	09/01/21 19:55	09/04/21 15:02	EPA 3050B	1,6010D	SV
Copper, Total	0.379	J	mg/kg	1.02	0.264	2	09/01/21 19:55	09/04/21 15:02	EPA 3050B	1,6010D	SV
Iron, Total	958		mg/kg	5.12	0.924	2	09/01/21 19:55	09/04/21 15:02	EPA 3050B	1,6010D	SV
Lead, Total	1.60	J	mg/kg	5.12	0.274	2	09/01/21 19:55	09/04/21 15:02	EPA 3050B	1,6010D	SV
Magnesium, Total	191		mg/kg	10.2	1.58	2	09/01/21 19:55	09/04/21 15:02	EPA 3050B	1,6010D	SV
Manganese, Total	10.6		mg/kg	1.02	0.163	2	09/01/21 19:55	09/04/21 15:02	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.083	0.054	1	09/01/21 20:25	09/04/21 14:28	EPA 7471B	1,7471B	NB
Nickel, Total	0.829	J	mg/kg	2.56	0.248	2	09/01/21 19:55	09/04/21 15:02	EPA 3050B	1,6010D	SV
Potassium, Total	94.0	J	mg/kg	256	14.7	2	09/01/21 19:55	09/04/21 15:02	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	2.05	0.264	2	09/01/21 19:55	09/04/21 15:02	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	1.02	0.290	2	09/01/21 19:55	09/04/21 15:02	EPA 3050B	1,6010D	SV
Sodium, Total	24.7	J	mg/kg	205	3.22	2	09/01/21 19:55	09/04/21 15:02	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	2.05	0.322	2	09/01/21 19:55	09/04/21 15:02	EPA 3050B	1,6010D	SV
Vanadium, Total	2.13		mg/kg	1.02	0.208	2	09/01/21 19:55	09/04/21 15:02	EPA 3050B	1,6010D	SV
Zinc, Total	21.8		mg/kg	5.12	0.300	2	09/01/21 19:55	09/04/21 15:02	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1.8		mg/kg	1.0	1.1	1		09/04/21 15:02	NA	107,-	

Project Name: 1607 SURF AVE.
Lab Number: L2146753
Project Number: 170599501
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-10
Client ID: EP40_1.5
Sample Location: BROOKLYN, NY
Date Collected: 08/31/21 09:55
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	362		mg/kg	9.35	2.52	2	09/01/21 19:55	09/04/21 15:06	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.68	0.355	2	09/01/21 19:55	09/04/21 15:06	EPA 3050B	1,6010D	SV
Arsenic, Total	0.262	J	mg/kg	0.935	0.194	2	09/01/21 19:55	09/04/21 15:06	EPA 3050B	1,6010D	SV
Barium, Total	2.35		mg/kg	0.935	0.163	2	09/01/21 19:55	09/04/21 15:06	EPA 3050B	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.468	0.031	2	09/01/21 19:55	09/04/21 15:06	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.935	0.092	2	09/01/21 19:55	09/04/21 15:06	EPA 3050B	1,6010D	SV
Calcium, Total	354		mg/kg	9.35	3.27	2	09/01/21 19:55	09/04/21 15:06	EPA 3050B	1,6010D	SV
Chromium, Total	2.63		mg/kg	0.935	0.090	2	09/01/21 19:55	09/04/21 15:06	EPA 3050B	1,6010D	SV
Cobalt, Total	0.411	J	mg/kg	1.87	0.155	2	09/01/21 19:55	09/04/21 15:06	EPA 3050B	1,6010D	SV
Copper, Total	0.608	J	mg/kg	0.935	0.241	2	09/01/21 19:55	09/04/21 15:06	EPA 3050B	1,6010D	SV
Iron, Total	838		mg/kg	4.68	0.844	2	09/01/21 19:55	09/04/21 15:06	EPA 3050B	1,6010D	SV
Lead, Total	2.80	J	mg/kg	4.68	0.251	2	09/01/21 19:55	09/04/21 15:06	EPA 3050B	1,6010D	SV
Magnesium, Total	147		mg/kg	9.35	1.44	2	09/01/21 19:55	09/04/21 15:06	EPA 3050B	1,6010D	SV
Manganese, Total	11.3		mg/kg	0.935	0.149	2	09/01/21 19:55	09/04/21 15:06	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.074	0.048	1	09/01/21 20:25	09/04/21 14:38	EPA 7471B	1,7471B	NB
Nickel, Total	0.645	J	mg/kg	2.34	0.226	2	09/01/21 19:55	09/04/21 15:06	EPA 3050B	1,6010D	SV
Potassium, Total	66.8	J	mg/kg	234	13.5	2	09/01/21 19:55	09/04/21 15:06	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.87	0.241	2	09/01/21 19:55	09/04/21 15:06	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.935	0.265	2	09/01/21 19:55	09/04/21 15:06	EPA 3050B	1,6010D	SV
Sodium, Total	16.3	J	mg/kg	187	2.94	2	09/01/21 19:55	09/04/21 15:06	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.87	0.294	2	09/01/21 19:55	09/04/21 15:06	EPA 3050B	1,6010D	SV
Vanadium, Total	2.47		mg/kg	0.935	0.190	2	09/01/21 19:55	09/04/21 15:06	EPA 3050B	1,6010D	SV
Zinc, Total	10.1		mg/kg	4.68	0.274	2	09/01/21 19:55	09/04/21 15:06	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.6		mg/kg	0.94	0.94	1		09/04/21 15:06	NA	107,-	

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-11
Client ID: FB01_083121
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 08/31/21 09:00
Date Received: 08/31/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	09/03/21 03:44	09/03/21 15:52	EPA 3005A	1,6020B	CD
Antimony, Total	ND		mg/l	0.00400	0.00042	1	09/03/21 03:44	09/03/21 15:52	EPA 3005A	1,6020B	CD
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	09/03/21 03:44	09/03/21 15:52	EPA 3005A	1,6020B	CD
Barium, Total	ND		mg/l	0.00050	0.00017	1	09/03/21 03:44	09/03/21 15:52	EPA 3005A	1,6020B	CD
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/03/21 03:44	09/03/21 15:52	EPA 3005A	1,6020B	CD
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/03/21 03:44	09/03/21 15:52	EPA 3005A	1,6020B	CD
Calcium, Total	ND		mg/l	0.100	0.0394	1	09/03/21 03:44	09/03/21 15:52	EPA 3005A	1,6020B	CD
Chromium, Total	ND		mg/l	0.00100	0.00017	1	09/03/21 03:44	09/03/21 15:52	EPA 3005A	1,6020B	CD
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	09/03/21 03:44	09/03/21 15:52	EPA 3005A	1,6020B	CD
Copper, Total	ND		mg/l	0.00100	0.00038	1	09/03/21 03:44	09/03/21 15:52	EPA 3005A	1,6020B	CD
Iron, Total	ND		mg/l	0.0500	0.0191	1	09/03/21 03:44	09/03/21 15:52	EPA 3005A	1,6020B	CD
Lead, Total	ND		mg/l	0.00100	0.00034	1	09/03/21 03:44	09/03/21 15:52	EPA 3005A	1,6020B	CD
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	09/03/21 03:44	09/03/21 15:52	EPA 3005A	1,6020B	CD
Manganese, Total	ND		mg/l	0.00100	0.00044	1	09/03/21 03:44	09/03/21 15:52	EPA 3005A	1,6020B	CD
Mercury, Total	ND		mg/l	0.00020	0.00009	1	09/03/21 06:44	09/03/21 16:10	EPA 7470A	1,7470A	NB
Nickel, Total	ND		mg/l	0.00200	0.00055	1	09/03/21 03:44	09/03/21 15:52	EPA 3005A	1,6020B	CD
Potassium, Total	ND		mg/l	0.100	0.0309	1	09/03/21 03:44	09/03/21 15:52	EPA 3005A	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/03/21 03:44	09/03/21 15:52	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/03/21 03:44	09/03/21 15:52	EPA 3005A	1,6020B	CD
Sodium, Total	ND		mg/l	0.100	0.0293	1	09/03/21 03:44	09/03/21 15:52	EPA 3005A	1,6020B	CD
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/03/21 03:44	09/03/21 15:52	EPA 3005A	1,6020B	CD
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	09/03/21 03:44	09/03/21 15:52	EPA 3005A	1,6020B	CD
Zinc, Total	0.00764	J	mg/l	0.01000	0.00341	1	09/03/21 03:44	09/03/21 15:52	EPA 3005A	1,6020B	CD
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		09/03/21 15:52	NA	107,-	

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-10 Batch: WG1541758-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	09/01/21 19:55	09/04/21 12:48	1,6010D	SV
Antimony, Total	ND		mg/kg	2.00	0.152	1	09/01/21 19:55	09/04/21 12:48	1,6010D	SV
Arsenic, Total	ND		mg/kg	0.400	0.083	1	09/01/21 19:55	09/04/21 12:48	1,6010D	SV
Barium, Total	ND		mg/kg	0.400	0.070	1	09/01/21 19:55	09/04/21 12:48	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.200	0.013	1	09/01/21 19:55	09/04/21 12:48	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.400	0.039	1	09/01/21 19:55	09/04/21 12:48	1,6010D	SV
Calcium, Total	ND		mg/kg	4.00	1.40	1	09/01/21 19:55	09/04/21 12:48	1,6010D	SV
Chromium, Total	ND		mg/kg	0.400	0.038	1	09/01/21 19:55	09/04/21 12:48	1,6010D	SV
Cobalt, Total	ND		mg/kg	0.800	0.066	1	09/01/21 19:55	09/04/21 12:48	1,6010D	SV
Copper, Total	ND		mg/kg	0.400	0.103	1	09/01/21 19:55	09/04/21 12:48	1,6010D	SV
Iron, Total	ND		mg/kg	2.00	0.361	1	09/01/21 19:55	09/04/21 12:48	1,6010D	SV
Lead, Total	ND		mg/kg	2.00	0.107	1	09/01/21 19:55	09/04/21 12:48	1,6010D	SV
Magnesium, Total	ND		mg/kg	4.00	0.616	1	09/01/21 19:55	09/04/21 12:48	1,6010D	SV
Manganese, Total	ND		mg/kg	0.400	0.064	1	09/01/21 19:55	09/04/21 12:48	1,6010D	SV
Nickel, Total	ND		mg/kg	1.00	0.097	1	09/01/21 19:55	09/04/21 12:48	1,6010D	SV
Potassium, Total	ND		mg/kg	100	5.76	1	09/01/21 19:55	09/04/21 12:48	1,6010D	SV
Selenium, Total	ND		mg/kg	0.800	0.103	1	09/01/21 19:55	09/04/21 12:48	1,6010D	SV
Silver, Total	ND		mg/kg	0.400	0.113	1	09/01/21 19:55	09/04/21 12:48	1,6010D	SV
Sodium, Total	ND		mg/kg	80.0	1.26	1	09/01/21 19:55	09/04/21 12:48	1,6010D	SV
Thallium, Total	ND		mg/kg	0.800	0.126	1	09/01/21 19:55	09/04/21 12:48	1,6010D	SV
Vanadium, Total	ND		mg/kg	0.400	0.081	1	09/01/21 19:55	09/04/21 12:48	1,6010D	SV
Zinc, Total	ND		mg/kg	2.00	0.117	1	09/01/21 19:55	09/04/21 12:48	1,6010D	SV

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-10 Batch: WG1541759-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	09/01/21 20:25	09/04/21 13:32	1,7471B	NB

Project Name: 1607 SURF AVE. **Lab Number:** L2146753

Project Number: 170599501 **Report Date:** 09/13/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 11 Batch: WG1542508-1										
Aluminum, Total	0.00356	J	mg/l	0.0100	0.00327	1	09/03/21 03:44	09/03/21 15:46	1,6020B	CD
Antimony, Total	ND		mg/l	0.00400	0.00042	1	09/03/21 03:44	09/03/21 15:46	1,6020B	CD
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	09/03/21 03:44	09/03/21 15:46	1,6020B	CD
Barium, Total	ND		mg/l	0.00050	0.00017	1	09/03/21 03:44	09/03/21 15:46	1,6020B	CD
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/03/21 03:44	09/03/21 15:46	1,6020B	CD
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/03/21 03:44	09/03/21 15:46	1,6020B	CD
Calcium, Total	ND		mg/l	0.100	0.0394	1	09/03/21 03:44	09/03/21 15:46	1,6020B	CD
Chromium, Total	ND		mg/l	0.00100	0.00017	1	09/03/21 03:44	09/03/21 15:46	1,6020B	CD
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	09/03/21 03:44	09/03/21 15:46	1,6020B	CD
Copper, Total	ND		mg/l	0.00100	0.00038	1	09/03/21 03:44	09/03/21 15:46	1,6020B	CD
Iron, Total	ND		mg/l	0.0500	0.0191	1	09/03/21 03:44	09/03/21 15:46	1,6020B	CD
Lead, Total	ND		mg/l	0.00100	0.00034	1	09/03/21 03:44	09/03/21 15:46	1,6020B	CD
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	09/03/21 03:44	09/03/21 15:46	1,6020B	CD
Manganese, Total	ND		mg/l	0.00100	0.00044	1	09/03/21 03:44	09/03/21 15:46	1,6020B	CD
Nickel, Total	ND		mg/l	0.00200	0.00055	1	09/03/21 03:44	09/03/21 15:46	1,6020B	CD
Potassium, Total	ND		mg/l	0.100	0.0309	1	09/03/21 03:44	09/03/21 15:46	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/03/21 03:44	09/03/21 15:46	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/03/21 03:44	09/03/21 15:46	1,6020B	CD
Sodium, Total	ND		mg/l	0.100	0.0293	1	09/03/21 03:44	09/03/21 15:46	1,6020B	CD
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/03/21 03:44	09/03/21 15:46	1,6020B	CD
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	09/03/21 03:44	09/03/21 15:46	1,6020B	CD
Zinc, Total	ND		mg/l	0.01000	0.00341	1	09/03/21 03:44	09/03/21 15:46	1,6020B	CD

Prep Information

Digestion Method: EPA 3005A

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 11 Batch: WG1542510-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	09/03/21 06:44	09/03/21 15:57	1,7470A	NB

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1541758-2 SRM Lot Number: D109-540								
Aluminum, Total	69		-		50-150	-		
Antimony, Total	119		-		19-250	-		
Arsenic, Total	99		-		70-130	-		
Barium, Total	92		-		75-125	-		
Beryllium, Total	94		-		75-125	-		
Cadmium, Total	95		-		75-125	-		
Calcium, Total	91		-		73-128	-		
Chromium, Total	94		-		70-130	-		
Cobalt, Total	95		-		75-125	-		
Copper, Total	96		-		75-125	-		
Iron, Total	91		-		35-165	-		
Lead, Total	95		-		72-128	-		
Magnesium, Total	82		-		62-138	-		
Manganese, Total	93		-		74-126	-		
Nickel, Total	94		-		70-130	-		
Potassium, Total	80		-		59-141	-		
Selenium, Total	99		-		68-132	-		
Silver, Total	97		-		68-131	-		
Sodium, Total	95		-		35-165	-		
Thallium, Total	89		-		68-131	-		
Vanadium, Total	90		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1541758-2 SRM Lot Number: D109-540					
Zinc, Total	95	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1541759-2 SRM Lot Number: D109-540					
Mercury, Total	85	-	60-140	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 Batch: WG1542508-2					
Aluminum, Total	96	-	80-120	-	
Antimony, Total	82	-	80-120	-	
Arsenic, Total	107	-	80-120	-	
Barium, Total	99	-	80-120	-	
Beryllium, Total	103	-	80-120	-	
Cadmium, Total	100	-	80-120	-	
Calcium, Total	95	-	80-120	-	
Chromium, Total	96	-	80-120	-	
Cobalt, Total	97	-	80-120	-	
Copper, Total	99	-	80-120	-	
Iron, Total	93	-	80-120	-	
Lead, Total	103	-	80-120	-	
Magnesium, Total	103	-	80-120	-	
Manganese, Total	95	-	80-120	-	
Nickel, Total	94	-	80-120	-	
Potassium, Total	99	-	80-120	-	
Selenium, Total	103	-	80-120	-	
Silver, Total	99	-	80-120	-	
Sodium, Total	97	-	80-120	-	
Thallium, Total	105	-	80-120	-	
Vanadium, Total	94	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 Batch: WG1542508-2					
Zinc, Total	103	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 11 Batch: WG1542510-2					
Mercury, Total	98	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1541758-3 QC Sample: L2146755-02 Client ID: MS Sample												
Aluminum, Total	3360	335	3710	104		-	-		75-125	-		20
Antimony, Total	56.1	83.8	115	**70**	Q	-	-		75-125	-		20
Arsenic, Total	49.0	20.1	47.0	**0**	Q	-	-		75-125	-		20
Barium, Total	832	335	2570	**518**	Q	-	-		75-125	-		20
Beryllium, Total	0.229J	8.38	8.43	100		-	-		75-125	-		20
Cadmium, Total	1.10J	8.88	9.25	104		-	-		75-125	-		20
Calcium, Total	29400	1680	22000	**0**	Q	-	-		75-125	-		20
Chromium, Total	767	33.5	504	**0**	Q	-	-		75-125	-		20
Cobalt, Total	14.0	83.8	82.3	81		-	-		75-125	-		20
Copper, Total	5300	41.9	4750	**0**	Q	-	-		75-125	-		20
Iron, Total	297000	168	280000	**10100**	Q	-	-		75-125	-		20
Lead, Total	2910	88.8	2200	**0**	Q	-	-		75-125	-		20
Magnesium, Total	622	1680	2320	101		-	-		75-125	-		20
Manganese, Total	1820	83.8	1640	**0**	Q	-	-		75-125	-		20
Nickel, Total	63.4	83.8	133	83		-	-		75-125	-		20
Potassium, Total	ND	1680	1650	98		-	-		75-125	-		20
Selenium, Total	0.688J	20.1	18.3	91		-	-		75-125	-		20
Silver, Total	9.51	50.3	60.0	100		-	-		75-125	-		20
Sodium, Total	831	1680	2540	102		-	-		75-125	-		20
Thallium, Total	1.24J	20.1	15.4	76		-	-		75-125	-		20
Vanadium, Total	14.7	83.8	100	102		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1541758-3 QC Sample: L2146755-02 Client ID: MS Sample										
Zinc, Total	8640	83.8	7030	**0**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1541759-3 QC Sample: L2146755-02 Client ID: MS Sample										
Mercury, Total	9.49	0.307	9.42	**0**	Q	-	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1542508-3 QC Sample: L2147042-09 Client ID: MS Sample										
Aluminum, Total	0.027	2	1.87	92		-	-	75-125	-	20
Antimony, Total	0.0009J	0.5	0.3716	**74**	Q	-	-	75-125	-	20
Arsenic, Total	ND	0.12	0.1242	104		-	-	75-125	-	20
Barium, Total	0.0169	2	2.006	99		-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.05146	103		-	-	75-125	-	20
Cadmium, Total	ND	0.053	0.05332	101		-	-	75-125	-	20
Calcium, Total	4.58	10	12.4	78		-	-	75-125	-	20
Chromium, Total	0.0008J	0.2	0.1921	96		-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.4908	98		-	-	75-125	-	20
Copper, Total	ND	0.25	0.2456	98		-	-	75-125	-	20
Iron, Total	0.0582	1	1.01	95		-	-	75-125	-	20
Lead, Total	0.00057J	0.53	0.4891	92		-	-	75-125	-	20
Magnesium, Total	3.26	10	12.8	95		-	-	75-125	-	20
Manganese, Total	0.00426	0.5	0.4836	96		-	-	75-125	-	20
Nickel, Total	ND	0.5	0.4663	93		-	-	75-125	-	20
Potassium, Total	0.917	10	10.3	94		-	-	75-125	-	20
Selenium, Total	ND	0.12	0.128	107		-	-	75-125	-	20
Silver, Total	ND	0.05	0.04880	98		-	-	75-125	-	20
Sodium, Total	15.9	10	21.3	**54**	Q	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.1217	101		-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.4768	95		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1542508-3 QC Sample: L2147042-09 Client ID: MS Sample									
Zinc, Total	ND	0.5	0.5061	101	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1542510-3 QC Sample: L2146753-11 Client ID: FB01_083121									
Mercury, Total	ND	0.005	0.00475	95	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1541758-4 QC Sample: L2146755-02 Client ID: DUP Sample						
Aluminum, Total	3360	3410	mg/kg	1		20
Antimony, Total	56.1	50.1	mg/kg	11		20
Arsenic, Total	49.0	75.7	mg/kg	**43**	Q	20
Barium, Total	832	841	mg/kg	1		20
Beryllium, Total	0.229J	0.276J	mg/kg	NC		20
Cadmium, Total	1.10J	1.17J	mg/kg	NC		20
Calcium, Total	29400	7210	mg/kg	**121**	Q	20
Chromium, Total	767	355	mg/kg	**73**	Q	20
Cobalt, Total	14.0	21.6	mg/kg	**43**	Q	20
Copper, Total	5300	3590	mg/kg	**38**	Q	20
Lead, Total	2910	8030	mg/kg	**94**	Q	20
Magnesium, Total	622	630	mg/kg	1		20
Manganese, Total	1820	1720	mg/kg	6		20
Nickel, Total	63.4	92.8	mg/kg	**38**	Q	20
Potassium, Total	ND	ND	mg/kg	NC		20
Selenium, Total	0.688J	ND	mg/kg	NC		20
Silver, Total	9.51	6.77	mg/kg	**34**	Q	20
Sodium, Total	831	499	mg/kg	**50**	Q	20
Thallium, Total	1.24J	0.927J	mg/kg	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1541758-4 QC Sample: L2146755-02 Client ID: DUP Sample						
Vanadium, Total	14.7	29.1	mg/kg	**66**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1541758-4 QC Sample: L2146755-02 Client ID: DUP Sample						
Iron, Total	297000	414000	mg/kg	**33**	Q	20
Zinc, Total	8640	12200	mg/kg	**34**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1541759-4 QC Sample: L2146755-02 Client ID: DUP Sample						
Mercury, Total	9.49	7.73	mg/kg	20		20
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1542508-4 QC Sample: L2147042-09 Client ID: DUP Sample						
Cadmium, Total	ND	ND	mg/l	NC		20
Iron, Total	0.0582	0.0693	mg/l	17		20
Lead, Total	0.00057J	ND	mg/l	NC		20
Manganese, Total	0.00426	0.00432	mg/l	1		20
Potassium, Total	0.917	0.868	mg/l	5		20
Sodium, Total	15.9	15.7	mg/l	1		20
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1542510-4 QC Sample: L2146753-11 Client ID: FB01_083121						
Mercury, Total	ND	ND	mg/l	NC		20

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2146753
Report Date: 09/13/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1541758-6 QC Sample: L2146755-02 Client ID: DUP Sample						
Aluminum, Total	3360	3240	mg/kg	4		20
Arsenic, Total	49.0	49.1	mg/kg	0		20
Barium, Total	832	801	mg/kg	4		20
Calcium, Total	29400	28900	mg/kg	2		20
Chromium, Total	767	757	mg/kg	1		20
Copper, Total	5300	5080	mg/kg	4		20
Lead, Total	2910	3100	mg/kg	7		20
Magnesium, Total	622	665	mg/kg	7		20
Manganese, Total	1820	1820	mg/kg	0		20
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1541758-6 QC Sample: L2146755-02 Client ID: DUP Sample						
Iron, Total	297000	307000	mg/kg	3		20
Zinc, Total	8640	8340	mg/kg	3		20
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1542508-6 QC Sample: L2147042-09 Client ID: DUP Sample						
Sodium, Total	15.9	13.0	mg/l	18		20

INORGANICS
&
MISCELLANEOUS

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-01
Client ID: EP07_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:10
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.1		%	0.100	NA	1	-	09/01/21 10:13	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	09/02/21 20:50	09/03/21 14:30	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	0.986	0.197	1	09/03/21 13:10	09/04/21 13:00	1,7196A	JT

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-02
Client ID: EP08_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:15
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.3		%	0.100	NA	1	-	09/01/21 10:13	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	09/03/21 17:55	09/07/21 12:18	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	1.08	0.215	1	09/03/21 13:10	09/04/21 13:00	1,7196A	JT

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-03
Client ID: EP15_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:20
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.0		%	0.100	NA	1	-	09/01/21 10:13	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	09/03/21 17:55	09/07/21 12:19	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	0.988	0.198	1	09/03/21 13:10	09/04/21 13:00	1,7196A	JT

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-04
Client ID: EP16_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:25
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.7		%	0.100	NA	1	-	09/01/21 10:13	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	09/03/21 17:55	09/07/21 12:20	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	1.00	0.201	1	09/03/21 13:10	09/04/21 13:00	1,7196A	JT

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-05
Client ID: EP23_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:30
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.4		%	0.100	NA	1	-	09/01/21 10:13	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	09/03/21 17:55	09/07/21 12:56	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	0.948	0.190	1	09/03/21 13:10	09/04/21 13:00	1,7196A	JT

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-06
Client ID: EP24_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:35
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.7		%	0.100	NA	1	-	09/01/21 10:13	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	09/03/21 17:55	09/07/21 12:57	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	1.02	0.203	1	09/03/21 13:10	09/04/21 13:00	1,7196A	JT

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-07
Client ID: EP31_1.5
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 08/31/21 09:40
Date Received: 08/31/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.2		%	0.100	NA	1	-	09/01/21 10:13	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	09/03/21 17:55	09/07/21 12:58	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	0.985	0.197	1	09/03/21 13:10	09/04/21 13:00	1,7196A	JT

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-08
Client ID: EP32_1.5
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 08/31/21 09:45
Date Received: 08/31/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.0		%	0.100	NA	1	-	09/01/21 10:13	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	09/03/21 17:55	09/07/21 12:59	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	0.976	0.195	1	09/03/21 13:10	09/04/21 13:00	1,7196A	JT

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-09
Client ID: EP39_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:50
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.1		%	0.100	NA	1	-	09/01/21 10:13	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	09/03/21 17:55	09/07/21 13:00	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	1.05	0.210	1	09/03/21 13:10	09/04/21 13:00	1,7196A	JT

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-10
Client ID: EP40_1.5
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:55
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.0		%	0.100	NA	1	-	09/01/21 10:13	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.24	1	09/03/21 17:55	09/07/21 13:01	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	0.941	0.188	1	09/03/21 13:10	09/04/21 13:00	1,7196A	JT

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

SAMPLE RESULTS

Lab ID: L2146753-11
Client ID: FB01_083121
Sample Location: BROOKLYN, NY

Date Collected: 08/31/21 09:00
Date Received: 08/31/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	09/02/21 09:40	09/02/21 12:26	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	09/01/21 08:50	09/01/21 09:47	1,7196A	KA

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2146753
Report Date: 09/13/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 11 Batch: WG1541641-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	09/01/21 08:50	09/01/21 09:42	1,7196A	KA
General Chemistry - Westborough Lab for sample(s): 11 Batch: WG1542131-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	09/02/21 09:40	09/02/21 12:20	1,9010C/9012B	CR
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1542420-1										
Cyanide, Total	ND		mg/kg	0.92	0.19	1	09/02/21 20:50	09/03/21 13:58	1,9010C/9012B	CR
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1542717-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	09/03/21 13:10	09/04/21 13:00	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 02-10 Batch: WG1542774-1										
Cyanide, Total	ND		mg/kg	0.98	0.21	1	09/03/21 17:55	09/07/21 12:13	1,9010C/9012B	CR

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 11 Batch: WG1541641-2								
Chromium, Hexavalent	104		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 11 Batch: WG1542131-2 WG1542131-3								
Cyanide, Total	94		95		85-115	1		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1542420-2 WG1542420-3								
Cyanide, Total	**42**	Q	**61**	Q	80-120	**47**	Q	35
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1542717-2								
Chromium, Hexavalent	91		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-10 Batch: WG1542774-2 WG1542774-3								
Cyanide, Total	**65**	Q	**41**	Q	80-120	30		35

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1541641-4 QC Sample: L2146753-11 Client ID: FB01_083121												
Chromium, Hexavalent	ND	0.1	0.105	105		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1542131-4 WG1542131-5 QC Sample: L2146753-11 Client ID: FB01_083121												
Cyanide, Total	ND	0.2	0.180	90		0.181	90		80-120	1		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1542420-4 WG1542420-5 QC Sample: L2146773-13 Client ID: MS Sample												
Cyanide, Total	ND	12	2.9	**25**	Q	11	97		75-125	**117**	Q	35
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1542717-4 QC Sample: L2146753-08 Client ID: EP32_1.5												
Chromium, Hexavalent	ND	1000	1010	101		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG1542774-4 WG1542774-5 QC Sample: L2146753-04 Client ID: EP16_1.5												
Cyanide, Total	ND	12	11	93		13	100		75-125	17		35

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2146753

Report Date: 09/13/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1541551-1 QC Sample: L2146753-01 Client ID: EP07_1.5						
Solids, Total	81.1	80.5	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1541641-3 QC Sample: L2146753-11 Client ID: FB01_083121						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1542717-6 QC Sample: L2146753-08 Client ID: EP32_1.5						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2146753-01A	Vial MeOH preserved	A	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L2146753-01B	Vial water preserved	A	NA		4.6	Y	Absent	01-SEP-21 06:22	NYTCL-8260HLW(14)
L2146753-01C	Vial water preserved	A	NA		4.6	Y	Absent	01-SEP-21 06:22	NYTCL-8260HLW(14)
L2146753-01D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),MG-TI(180),HG-T(28),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2146753-01E	Plastic 2oz unpreserved for TS	C	NA		4.3	Y	Absent		TS(7)
L2146753-01F	Plastic 120ml unpreserved	A	NA		4.6	Y	Absent		TS(7)
L2146753-01G	Glass 120ml/4oz unpreserved	A	NA		4.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2146753-01H	Plastic 8oz unpreserved	C	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L2146753-01J	Glass 500ml/16oz unpreserved	A	NA		4.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2146753-02A	Vial MeOH preserved	A	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L2146753-02B	Vial water preserved	A	NA		4.6	Y	Absent	01-SEP-21 06:22	NYTCL-8260HLW(14)
L2146753-02C	Vial water preserved	A	NA		4.6	Y	Absent	01-SEP-21 06:22	NYTCL-8260HLW(14)
L2146753-02D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2146753-02E	Plastic 2oz unpreserved for TS	C	NA		4.3	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2146753-02F	Plastic 120ml unpreserved	A	NA		4.6	Y	Absent		TS(7)
L2146753-02G	Glass 120ml/4oz unpreserved	A	NA		4.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2146753-02H	Plastic 8oz unpreserved	C	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L2146753-02J	Glass 500ml/16oz unpreserved	A	NA		4.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2146753-03A	Vial MeOH preserved	A	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L2146753-03B	Vial water preserved	A	NA		4.6	Y	Absent	01-SEP-21 06:22	NYTCL-8260HLW(14)
L2146753-03C	Vial water preserved	A	NA		4.6	Y	Absent	01-SEP-21 06:22	NYTCL-8260HLW(14)
L2146753-03D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),SB-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2146753-03E	Plastic 2oz unpreserved for TS	C	NA		4.3	Y	Absent		TS(7)
L2146753-03F	Plastic 120ml unpreserved	A	NA		4.6	Y	Absent		TS(7)
L2146753-03G	Glass 120ml/4oz unpreserved	A	NA		4.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2146753-03H	Plastic 8oz unpreserved	C	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L2146753-03J	Glass 500ml/16oz unpreserved	A	NA		4.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2146753-04A	Vial MeOH preserved	A	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L2146753-04B	Vial water preserved	A	NA		4.6	Y	Absent	01-SEP-21 06:22	NYTCL-8260HLW(14)
L2146753-04C	Vial water preserved	A	NA		4.6	Y	Absent	01-SEP-21 06:22	NYTCL-8260HLW(14)
L2146753-04D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),SE-TI(180),SB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),HG-T(28),FE-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2146753-04E	Plastic 2oz unpreserved for TS	C	NA		4.3	Y	Absent		TS(7)
L2146753-04F	Plastic 120ml unpreserved	A	NA		4.6	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2146753-04G	Glass 120ml/4oz unpreserved	A	NA		4.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2146753-04H	Plastic 8oz unpreserved	C	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L2146753-04J	Glass 500ml/16oz unpreserved	A	NA		4.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2146753-05A	Vial MeOH preserved	A	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L2146753-05B	Vial water preserved	A	NA		4.6	Y	Absent	01-SEP-21 06:22	NYTCL-8260HLW(14)
L2146753-05C	Vial water preserved	A	NA		4.6	Y	Absent	01-SEP-21 06:22	NYTCL-8260HLW(14)
L2146753-05D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NA-TI(180),CA-TI(180),K-TI(180),CD-TI(180)
L2146753-05E	Plastic 2oz unpreserved for TS	C	NA		4.3	Y	Absent		TS(7)
L2146753-05F	Plastic 120ml unpreserved	A	NA		4.6	Y	Absent		TS(7)
L2146753-05G	Glass 120ml/4oz unpreserved	A	NA		4.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2146753-05H	Plastic 8oz unpreserved	C	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L2146753-05J	Glass 500ml/16oz unpreserved	A	NA		4.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2146753-06A	Vial MeOH preserved	A	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L2146753-06B	Vial water preserved	A	NA		4.6	Y	Absent	01-SEP-21 06:22	NYTCL-8260HLW(14)
L2146753-06C	Vial water preserved	A	NA		4.6	Y	Absent	01-SEP-21 06:22	NYTCL-8260HLW(14)
L2146753-06D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),PB-TI(180),CU-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2146753-06E	Plastic 2oz unpreserved for TS	C	NA		4.3	Y	Absent		TS(7)
L2146753-06F	Plastic 120ml unpreserved	A	NA		4.6	Y	Absent		TS(7)
L2146753-06G	Glass 120ml/4oz unpreserved	A	NA		4.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2146753-06H	Plastic 8oz unpreserved	C	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L2146753-06J	Glass 500ml/16oz unpreserved	A	NA		4.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2146753-07A	Vial MeOH preserved	A	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L2146753-07B	Vial water preserved	A	NA		4.6	Y	Absent	01-SEP-21 06:22	NYTCL-8260HLW(14)
L2146753-07C	Vial water preserved	A	NA		4.6	Y	Absent	01-SEP-21 06:22	NYTCL-8260HLW(14)
L2146753-07D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MN-TI(180),MG-TI(180),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2146753-07E	Plastic 2oz unpreserved for TS	C	NA		4.3	Y	Absent		TS(7)
L2146753-07F	Plastic 120ml unpreserved	A	NA		4.6	Y	Absent		TS(7)
L2146753-07G	Glass 120ml/4oz unpreserved	A	NA		4.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2146753-07H	Plastic 8oz unpreserved	C	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L2146753-07J	Glass 500ml/16oz unpreserved	A	NA		4.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2146753-08A	Vial MeOH preserved	A	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L2146753-08B	Vial water preserved	A	NA		4.6	Y	Absent	01-SEP-21 06:22	NYTCL-8260HLW(14)
L2146753-08C	Vial water preserved	A	NA		4.6	Y	Absent	01-SEP-21 06:22	NYTCL-8260HLW(14)
L2146753-08D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MN-TI(180),MG-TI(180),NA-TI(180),K-TI(180),CA-TI(180),CD-TI(180)
L2146753-08E	Plastic 2oz unpreserved for TS	C	NA		4.3	Y	Absent		TS(7)
L2146753-08F	Plastic 120ml unpreserved	A	NA		4.6	Y	Absent		TS(7)
L2146753-08G	Glass 120ml/4oz unpreserved	A	NA		4.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2146753-08H	Plastic 8oz unpreserved	C	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2146753-08J	Glass 500ml/16oz unpreserved	A	NA		4.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2146753-09A	Vial MeOH preserved	A	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L2146753-09B	Vial water preserved	A	NA		4.6	Y	Absent	01-SEP-21 06:22	NYTCL-8260HLW(14)
L2146753-09C	Vial water preserved	A	NA		4.6	Y	Absent	01-SEP-21 06:22	NYTCL-8260HLW(14)
L2146753-09D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MN-TI(180),MG-TI(180),FE-TI(180),HG-T(28),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2146753-09E	Plastic 2oz unpreserved for TS	C	NA		4.3	Y	Absent		TS(7)
L2146753-09F	Plastic 120ml unpreserved	A	NA		4.6	Y	Absent		TS(7)
L2146753-09G	Glass 120ml/4oz unpreserved	A	NA		4.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2146753-09H	Plastic 8oz unpreserved	C	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L2146753-09J	Glass 500ml/16oz unpreserved	A	NA		4.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2146753-10A	Vial MeOH preserved	A	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L2146753-10B	Vial water preserved	A	NA		4.6	Y	Absent	01-SEP-21 06:22	NYTCL-8260HLW(14)
L2146753-10C	Vial water preserved	A	NA		4.6	Y	Absent	01-SEP-21 06:22	NYTCL-8260HLW(14)
L2146753-10D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2146753-10E	Plastic 2oz unpreserved for TS	C	NA		4.3	Y	Absent		TS(7)
L2146753-10F	Plastic 120ml unpreserved	A	NA		4.6	Y	Absent		TS(7)
L2146753-10G	Glass 120ml/4oz unpreserved	A	NA		4.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2146753-10H	Plastic 8oz unpreserved	C	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L2146753-10J	Glass 500ml/16oz unpreserved	A	NA		4.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2146753
Report Date: 09/13/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2146753-11A	Vial HCl preserved	B	NA		3.6	Y	Absent		NYTCL-8260(14)
L2146753-11B	Vial HCl preserved	B	NA		3.6	Y	Absent		NYTCL-8260(14)
L2146753-11C	Vial HCl preserved	B	NA		3.6	Y	Absent		NYTCL-8260(14)
L2146753-11D	Amber 120ml unpreserved	B	7	7	3.6	Y	Absent		NYTCL-8081(7)
L2146753-11E	Amber 120ml unpreserved	B	7	7	3.6	Y	Absent		NYTCL-8081(7)
L2146753-11F	Amber 120ml unpreserved	B	7	7	3.6	Y	Absent		NYTCL-8082-LVI(365)
L2146753-11G	Amber 120ml unpreserved	B	7	7	3.6	Y	Absent		NYTCL-8082-LVI(365)
L2146753-11H	Amber 250ml unpreserved	B	7	7	3.6	Y	Absent		NYTCL-8270-LVI(7)
L2146753-11J	Amber 250ml unpreserved	B	7	7	3.6	Y	Absent		NYTCL-8270-LVI(7)
L2146753-11K	Amber 250ml unpreserved	B	7	7	3.6	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2146753-11L	Amber 250ml unpreserved	B	7	7	3.6	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2146753-11M	Plastic 250ml HNO3 preserved	B	<2	<2	3.6	Y	Absent		FE-6020T(180),SE-6020T(180),BA-6020T(180),TL-6020T(180),K-6020T(180),NI-6020T(180),CR-6020T(180),CA-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),AG-6020T(180),HG-T(28),MG-6020T(180),CD-6020T(180),AL-6020T(180),CO-6020T(180)
L2146753-11N	Plastic 250ml NaOH preserved	B	>12	>12	3.6	Y	Absent		TCN-9010(14)
L2146753-11O	Plastic 500ml unpreserved	B	7	7	3.6	Y	Absent		HEXCR-7196(1)
L2146753-11P	Amber 1000ml unpreserved	B	7	7	3.6	Y	Absent		HERB-APA(7)
L2146753-11Q	Amber 1000ml unpreserved	B	7	7	3.6	Y	Absent		HERB-APA(7)
L2146753-11R	Plastic 250ml unpreserved	C	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L2146753-12A	Vial HCl preserved	B	NA		3.6	Y	Absent		NYTCL-8260(14)
L2146753-12B	Vial HCl preserved	B	NA		3.6	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVE.
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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	1607 SURF AVE.	**Lab Number:**	L2146753
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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:	1607 SURF AVE.	**Lab Number:**	L2146753
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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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

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Data Qualifiers

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.

Project Name:	1607 SURF AVE.	**Lab Number:**	L2146753
Project Number:	170599501	**Report Date:**	09/13/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

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, SM4500Cl-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, **LACHAT 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

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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: 9/1/21

ALPHA Job #: L2146753

Client Information
Client: LANGAN
Address: 360 W 31ST ST 8TH FLOOR, NY
Phone: 212 479 5400
Fax: 212 479 5499
Email: JFUSCA@LANGAN.COM

Project Information
Project Name: 1607 SURF AVENUE
Project Location: BROOKLYN, NY
Project #: 170599501
(Use Project name as Project #) ☐
Project Manager: JESSICA FUSCA
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

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:
CC: LESMALC@LANGAN.COM
MTAMANAGEMENT@LANGAN.COM

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs, SVOCs	TCL Pesticides	Herbs, PCBs	TAL Metals	TCN	Hex/Tot Chrom	PFAAS	1,4-Dioxane	Sample Specific Comments
46753 -01	EP07-1.5	8/31/21	910	S	AR	X	X	X	X	X	X	X	X	
-02	EP08-1.5		915											
-03	EP15-1.5		920											
-04	EP16-1.5		925											
-05	EP23-1.5		930											
-06	EP24-1.5		935											
-07	EP31-1.5		940											
-08	EP32-1.5		945											
-09	EP39-1.5		950											
-10	EP40-1.5	↓	955	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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								
Preservative								

Relinquished By:	Date/Time	Received By:	Date/Time
	08/31/21 1438	AAL	8/31/21 14:40
AAL	8/31/21 19:00	AAL	8/31/21 22:00
AAL	9/1/21 02:10		9/1/21 02:10

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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: 9/1/21

ALPHA Job #: L2146753

Client Information
Client: LANGAN
Address: 360 W 31ST ST, 8TH Floor, NY
Phone: 212 479 5400
Fax: 212 479 5499
Email: JFOSCA@LANGAN.COM

Project Information
Project Name: 1607 SOUTH AVENUE
Project Location: BROOKLYN, NY
Project #: 170599501
(Use Project name as Project #)
Project Manager: JESSICA FOSCA
ALPHAQuote #:

Turn-Around Time
Standard [X]
Rush (only if pre approved) [ ] # of Days:
Due Date:

Deliverables
[ ] ASP-A [X] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Billing Information
[X] Same as Client Info
PO #

Regulatory Requirement
[ ] NY TOGS [ ] NY Part 375
[ ] AWQ 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:
CC: LESMAIC@LANGAN.COM
DATAMANAGEMENT@LANGAN.COM

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs	TCL SVOCs, Pest	Herbs, PCBs	TAL Metals	TCN	Hex/Trav Chrom	PFAAS	1,4-Dioxane	Sample Specific Comments	Total Bottle
L2146753-11	FBOL_083121	8/31/21	900	AQ	AR	X	X	X	X	X	X	X	X	1,4-dioxane via 8270D-SIM method	
-12	TBOL_083121	8/31/21	905	AQ	AR	X									

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	08/31/21 1438		8/31/21 14:41
	8/31/21 19:00		8/31/21 22:00
	9/1/21 02:10		9/1/21 02:10

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2149178
Client:	Langan Engineering & Environmental 300 Kimball Drive 4th Floor Parsippany, NJ 07054-2172
ATTN:	Jessica Friscia
Phone:	(973) 560-4488
Project Name:	1607 SURF AVENUE
Project Number:	170599501
Report Date:	09/17/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2149178-01	EP46_-3	SOIL	BROOKLYN, NY	09/13/21 10:00	09/13/21
L2149178-02	EP47_-3	SOIL	BROOKLYN, NY	09/13/21 10:05	09/13/21
L2149178-03	EP48_-3	SOIL	BROOKLYN, NY	09/13/21 10:10	09/13/21
L2149178-04	EP54_-3	SOIL	BROOKLYN, NY	09/13/21 10:15	09/13/21
L2149178-05	EP55_-3	SOIL	BROOKLYN, NY	09/13/21 10:20	09/13/21
L2149178-06	EP56_-3	SOIL	BROOKLYN, NY	09/13/21 10:25	09/13/21
L2149178-07	EP62_-3	SOIL	BROOKLYN, NY	09/13/21 10:30	09/13/21
L2149178-08	EP63_-3	SOIL	BROOKLYN, NY	09/13/21 10:35	09/13/21
L2149178-09	EP64_-3	SOIL	BROOKLYN, NY	09/13/21 10:40	09/13/21
L2149178-10	EPSW13_-3	SOIL	BROOKLYN, NY	09/13/21 11:00	09/13/21
L2149178-11	EPSW14_-3	SOIL	BROOKLYN, NY	09/13/21 11:10	09/13/21
L2149178-12	TB01_091321	WATER	BROOKLYN, NY	09/13/21 00:00	09/13/21

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2149178
Project Number:	170599501	**Report Date:**	09/17/21

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: 1607 SURF AVENUE **Lab Number:** L2149178
Project Number: 170599501 **Report Date:** 09/17/21

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.

Semivolatile Organics

The WG1545882-4/-5 MS/MSD recoveries, performed on L2149178-09, are below the acceptance criteria for 2,4-dinitrophenol (0%/0%) and benzoic acid (0%/0%) due to the concentrations of these compounds in the MS/MSD falling below the reported detection limits.

Total Metals

L2149178-01 through -11: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1546156-3/-4 MS/MSD recoveries, performed on L2149178-09, are outside the acceptance criteria for aluminum (162%/155%). A post digestion spike was performed and was within acceptance criteria.

The WG1546156-3/-4 MS/MSD recoveries for iron (275%/216%), performed on L2149178-09, do not apply because the sample concentration is greater than four times the spike amount added.

Cyanide, Total

The WG1547281-2/-3 LCS/LCSD recoveries for cyanide, total (60%/70%), associated with L2149178-01 through -07, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1547323-2/-3 LCS/LCSD recoveries for cyanide, total (78%/65%), associated with L2149178-08 through -11, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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: Kelly Stenstrom

Title: Technical Director/Representative Date: 09/17/21

ORGANICS

VOLATILES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-01
Client ID: EP46_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:00
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/15/21 23:39
Analyst: MV
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.14	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	ND		ug/kg	0.58	0.23	1
Chlorobenzene	ND		ug/kg	0.58	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.80	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	0.19	1
Bromodichloromethane	ND		ug/kg	0.58	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.58	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.58	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	0.19	1
Benzene	ND		ug/kg	0.58	0.19	1
Toluene	ND		ug/kg	1.2	0.63	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.67	1
Vinyl chloride	ND		ug/kg	1.2	0.39	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-01 Date Collected: 09/13/21 10:00

Client ID: EP46_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.65	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.0	1
Acetone	ND		ug/kg	12	5.6	1
Carbon disulfide	ND		ug/kg	12	5.3	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.58	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.19	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.6	0.75	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-01 Date Collected: 09/13/21 10:00

Client ID: EP46_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.39	1
1,4-Dioxane	ND		ug/kg	92	41.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	110		70-130

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-02
Client ID: EP47_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:05
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/15/21 23:59
Analyst: MV
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-02 Date Collected: 09/13/21 10:05

Client ID: EP47_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.71	1
Acrylonitrile	ND		ug/kg	4.4	1.2	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-02 Date Collected: 09/13/21 10:05

Client ID: EP47_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	87	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	111		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-03
Client ID: EP48_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:10
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/16/21 00:20
Analyst: MV
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-03 Date Collected: 09/13/21 10:10

Client ID: EP48_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
Xylenes, Total	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.99	1
Acetone	ND		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.3	0.70	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-03 Date Collected: 09/13/21 10:10

Client ID: EP48_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	86	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.41	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	107		70-130

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-04
Client ID: EP54_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:15
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/16/21 00:41
Analyst: MV
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	2.9	J	ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.28	1
Tetrachloroethene	ND		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Bromodichloromethane	ND		ug/kg	0.53	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.53	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.53	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	0.18	1
Benzene	ND		ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-04 Date Collected: 09/13/21 10:15

Client ID: EP54_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.53	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
Xylenes, Total	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.98	1
Acetone	ND		ug/kg	11	5.1	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.53	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.1	0.13	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.3	0.70	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-04 Date Collected: 09/13/21 10:15

Client ID: EP54_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.36	1
1,4-Dioxane	ND		ug/kg	86	38.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.19	1
p-Ethyltoluene	ND		ug/kg	2.1	0.41	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.3	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	113		70-130

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-05
Client ID: EP55_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:20
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/16/21 01:02
Analyst: MV
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.18	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.18	1
Benzene	ND		ug/kg	0.56	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.65	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-05 Date Collected: 09/13/21 10:20

Client ID: EP55_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.72	1
Acrylonitrile	ND		ug/kg	4.4	1.3	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-05 Date Collected: 09/13/21 10:20

Client ID: EP55_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	89	39.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.43	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	110		70-130

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-06
Client ID: EP56_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:25
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/16/21 01:23
Analyst: MV
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	3.2	J	ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-06 Date Collected: 09/13/21 10:25

Client ID: EP56_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.71	1
Acrylonitrile	ND		ug/kg	4.4	1.2	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-06 Date Collected: 09/13/21 10:25

Client ID: EP56_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	87	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	113		70-130

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-07
Client ID: EP62_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:30
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/16/21 01:43
Analyst: MV
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.18	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.98	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-07 Date Collected: 09/13/21 10:30

Client ID: EP62_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.18	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.2	0.68	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-07 Date Collected: 09/13/21 10:30

Client ID: EP62_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	84	37.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.18	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	112		70-130

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-08
Client ID: EP63_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:35
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/16/21 06:49
Analyst: MV
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.4	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.89	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.21	1
Bromodichloromethane	ND		ug/kg	0.64	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.64	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.64	0.20	1
Bromoform	ND		ug/kg	5.1	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	0.21	1
Benzene	ND		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.69	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.1	1.2	1
Bromomethane	ND		ug/kg	2.6	0.74	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.18	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-08 Date Collected: 09/13/21 10:35

Client ID: EP63_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.64	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.72	1
o-Xylene	ND		ug/kg	1.3	0.37	1
Xylenes, Total	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.30	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.1	1
Carbon disulfide	ND		ug/kg	13	5.8	1
2-Butanone	ND		ug/kg	13	2.8	1
Vinyl acetate	ND		ug/kg	13	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.64	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.18	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.24	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.1	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.1	0.83	1
Acrylonitrile	ND		ug/kg	5.1	1.5	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-08 Date Collected: 09/13/21 10:35

Client ID: EP63_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
1,4-Dioxane	ND		ug/kg	100	45.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.49	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.24	1
Ethyl ether	ND		ug/kg	2.6	0.44	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	112		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-09
Client ID: EP64_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:40
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/16/21 16:37
Analyst: JC
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-09 Date Collected: 09/13/21 10:40

Client ID: EP64_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.99	1
Acetone	ND		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.3	0.71	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-09 Date Collected: 09/13/21 10:40

Client ID: EP64_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	87	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	109		70-130

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-10
Client ID: EPSW13_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 11:00
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/16/21 07:10
Analyst: MV
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.14	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	ND		ug/kg	0.58	0.23	1
Chlorobenzene	ND		ug/kg	0.58	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.81	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	0.19	1
Bromodichloromethane	ND		ug/kg	0.58	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.58	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.58	0.18	1
Bromoform	ND		ug/kg	4.6	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	0.19	1
Benzene	ND		ug/kg	0.58	0.19	1
Toluene	ND		ug/kg	1.2	0.63	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.68	1
Vinyl chloride	ND		ug/kg	1.2	0.39	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-10 Date Collected: 09/13/21 11:00

Client ID: EPSW13_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.65	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.6	1
Carbon disulfide	ND		ug/kg	12	5.3	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.58	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.19	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.6	0.76	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-10 Date Collected: 09/13/21 11:00

Client ID: EPSW13_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.39	1
1,4-Dioxane	ND		ug/kg	93	41.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.45	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	110		70-130

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-11
Client ID: EPSW14_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 11:10
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/16/21 07:30
Analyst: MV
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.79	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.57	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	ND		ug/kg	1.1	0.62	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-11 Date Collected: 09/13/21 11:10

Client ID: EPSW14_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.5	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.3	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.57	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.13	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.6	0.74	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-11 Date Collected: 09/13/21 11:10

Client ID: EPSW14_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	91	40.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	111		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-12
Client ID: TB01_091321
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 00:00
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/15/21 09:59
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-12 Date Collected: 09/13/21 00:00

Client ID: TB01_091321 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.6	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-12 Date Collected: 09/13/21 00:00

Client ID: TB01_091321 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	102		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/15/21 09:36
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1546902-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/15/21 09:36
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1546902-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/15/21 09:36
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1546902-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	100		70-130

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/15/21 18:28
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-07 Batch: WG1546914-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.16	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/15/21 18:28
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-07 Batch: WG1546914-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/15/21 18:28
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-07 Batch: WG1546914-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	98		70-130

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/16/21 05:26
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08,10-11 Batch: WG1547011-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.15	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1607 SURF AVENUE
Project Number: 170599501
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
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Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08,10-11 Batch: WG1547011-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1607 SURF AVENUE
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/16/21 05:26
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08,10-11 Batch: WG1547011-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	105		70-130

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

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Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/16/21 16:16
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 09 Batch: WG1547649-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.15	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/16/21 16:16
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 09 Batch: WG1547649-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/16/21 16:16
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 09 Batch: WG1547649-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1546902-3 WG1546902-4								
Methylene chloride	94		94		70-130	0		20
1,1-Dichloroethane	96		97		70-130	1		20
Chloroform	99		99		70-130	0		20
Carbon tetrachloride	98		99		63-132	1		20
1,2-Dichloropropane	91		92		70-130	1		20
Dibromochloromethane	96		94		63-130	2		20
1,1,2-Trichloroethane	93		90		70-130	3		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	98		98		75-130	0		20
Trichlorofluoromethane	99		99		62-150	0		20
1,2-Dichloroethane	91		90		70-130	1		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	92		92		67-130	0		20
trans-1,3-Dichloropropene	94		91		70-130	3		20
cis-1,3-Dichloropropene	92		92		70-130	0		20
1,1-Dichloropropene	97		97		70-130	0		20
Bromoform	96		95		54-136	1		20
1,1,2,2-Tetrachloroethane	90		91		67-130	1		20
Benzene	97		97		70-130	0		20
Toluene	96		95		70-130	1		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	87		87		64-130	0		20
Bromomethane	86		95		39-139	10		20

Lab Control Sample Analysis
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Project Name: 1607 SURF AVENUE
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1546902-3 WG1546902-4								
Vinyl chloride	95		96		55-140	1		20
Chloroethane	100		100		55-138	0		20
1,1-Dichloroethene	98		97		61-145	1		20
trans-1,2-Dichloroethene	98		98		70-130	0		20
Trichloroethene	96		97		70-130	1		20
1,2-Dichlorobenzene	98		99		70-130	1		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	79		78		63-130	1		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	99		100		70-130	1		20
Dibromomethane	88		90		70-130	2		20
1,2,3-Trichloropropane	100		99		64-130	1		20
Acrylonitrile	77		76		70-130	1		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	95		95		36-147	0		20
Acetone	120		96		58-148	**22**	Q	20
Carbon disulfide	94		92		51-130	2		20
2-Butanone	82		84		63-138	2		20
Vinyl acetate	83		81		70-130	2		20
4-Methyl-2-pentanone	85		83		59-130	2		20
2-Hexanone	86		84		57-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1546902-3 WG1546902-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	97		93		70-130	4		20
1,3-Dichloropropane	93		92		70-130	1		20
1,1,1,2-Tetrachloroethane	100		99		64-130	1		20
Bromobenzene	110		110		70-130	0		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	100		110		70-130	10		20
tert-Butylbenzene	110		110		70-130	0		20
o-Chlorotoluene	110		110		70-130	0		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	88		88		41-144	0		20
Hexachlorobutadiene	120		120		63-130	0		20
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	110		110		70-130	0		20
Naphthalene	72		80		70-130	11		20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	72		81		70-130	12		20
1,2,4-Trichlorobenzene	89		93		70-130	4		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20
1,4-Dioxane	80		84		56-162	5		20
p-Diethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1546902-3 WG1546902-4								
p-Ethyltoluene	110		100		70-130	10		20
1,2,4,5-Tetramethylbenzene	100		100		70-130	0		20
Ethyl ether	82		80		59-134	2		20
trans-1,4-Dichloro-2-butene	**69**	Q	71		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		99		70-130
Toluene-d8	103		101		70-130
4-Bromofluorobenzene	106		105		70-130
Dibromofluoromethane	103		104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-07 Batch: WG1546914-3 WG1546914-4								
Methylene chloride	82		84		70-130	2		30
1,1-Dichloroethane	85		82		70-130	4		30
Chloroform	88		83		70-130	6		30
Carbon tetrachloride	79		76		70-130	4		30
1,2-Dichloropropane	88		85		70-130	3		30
Dibromochloromethane	86		88		70-130	2		30
1,1,2-Trichloroethane	89		93		70-130	4		30
Tetrachloroethene	86		86		70-130	0		30
Chlorobenzene	86		85		70-130	1		30
Trichlorofluoromethane	85		81		70-139	5		30
1,2-Dichloroethane	92		89		70-130	3		30
1,1,1-Trichloroethane	82		79		70-130	4		30
Bromodichloromethane	84		83		70-130	1		30
trans-1,3-Dichloropropene	84		87		70-130	4		30
cis-1,3-Dichloropropene	87		84		70-130	4		30
1,1-Dichloropropene	84		79		70-130	6		30
Bromoform	87		86		70-130	1		30
1,1,2,2-Tetrachloroethane	98		90		70-130	9		30
Benzene	87		83		70-130	5		30
Toluene	84		82		70-130	2		30
Ethylbenzene	86		84		70-130	2		30
Chloromethane	77		73		52-130	5		30
Bromomethane	88		76		57-147	15		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-07 Batch: WG1546914-3 WG1546914-4								
Vinyl chloride	83		77		67-130	8		30
Chloroethane	87		78		50-151	11		30
1,1-Dichloroethene	86		81		65-135	6		30
trans-1,2-Dichloroethene	85		84		70-130	1		30
Trichloroethene	89		85		70-130	5		30
1,2-Dichlorobenzene	91		86		70-130	6		30
1,3-Dichlorobenzene	91		85		70-130	7		30
1,4-Dichlorobenzene	90		84		70-130	7		30
Methyl tert butyl ether	93		92		66-130	1		30
p/m-Xylene	84		85		70-130	1		30
o-Xylene	87		87		70-130	0		30
cis-1,2-Dichloroethene	86		83		70-130	4		30
Dibromomethane	89		86		70-130	3		30
Styrene	88		88		70-130	0		30
Dichlorodifluoromethane	66		61		30-146	8		30
Acetone	91		82		54-140	10		30
Carbon disulfide	81		78		59-130	4		30
2-Butanone	89		78		70-130	13		30
Vinyl acetate	87		83		70-130	5		30
4-Methyl-2-pentanone	96		98		70-130	2		30
1,2,3-Trichloropropane	97		93		68-130	4		30
2-Hexanone	88		87		70-130	1		30
Bromochloromethane	90		86		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-07 Batch: WG1546914-3 WG1546914-4								
2,2-Dichloropropane	79		75		70-130	5		30
1,2-Dibromoethane	95		98		70-130	3		30
1,3-Dichloropropane	92		94		69-130	2		30
1,1,1,2-Tetrachloroethane	89		89		70-130	0		30
Bromobenzene	91		84		70-130	8		30
n-Butylbenzene	89		83		70-130	7		30
sec-Butylbenzene	90		82		70-130	9		30
tert-Butylbenzene	90		84		70-130	7		30
o-Chlorotoluene	90		82		70-130	9		30
p-Chlorotoluene	89		84		70-130	6		30
1,2-Dibromo-3-chloropropane	82		82		68-130	0		30
Hexachlorobutadiene	94		87		67-130	8		30
Isopropylbenzene	90		83		70-130	8		30
p-Isopropyltoluene	90		84		70-130	7		30
Naphthalene	87		86		70-130	1		30
Acrylonitrile	84		84		70-130	0		30
n-Propylbenzene	88		82		70-130	7		30
1,2,3-Trichlorobenzene	92		86		70-130	7		30
1,2,4-Trichlorobenzene	91		85		70-130	7		30
1,3,5-Trimethylbenzene	91		85		70-130	7		30
1,2,4-Trimethylbenzene	91		85		70-130	7		30
1,4-Dioxane	102		97		65-136	5		30
p-Diethylbenzene	91		84		70-130	8		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-07 Batch: WG1546914-3 WG1546914-4								
p-Ethyltoluene	89		84		70-130	6		30
1,2,4,5-Tetramethylbenzene	90		83		70-130	8		30
Ethyl ether	94		92		67-130	2		30
trans-1,4-Dichloro-2-butene	89		85		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		101		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	100		95		70-130
Dibromofluoromethane	97		94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08,10-11 Batch: WG1547011-3 WG1547011-4								
Methylene chloride	96		96		70-130	0		30
1,1-Dichloroethane	94		92		70-130	2		30
Chloroform	95		94		70-130	1		30
Carbon tetrachloride	92		90		70-130	2		30
1,2-Dichloropropane	95		93		70-130	2		30
Dibromochloromethane	88		93		70-130	6		30
1,1,2-Trichloroethane	92		95		70-130	3		30
Tetrachloroethene	99		100		70-130	1		30
Chlorobenzene	92		94		70-130	2		30
Trichlorofluoromethane	98		95		70-139	3		30
1,2-Dichloroethane	96		96		70-130	0		30
1,1,1-Trichloroethane	96		93		70-130	3		30
Bromodichloromethane	90		91		70-130	1		30
trans-1,3-Dichloropropene	88		91		70-130	3		30
cis-1,3-Dichloropropene	90		91		70-130	1		30
1,1-Dichloropropene	94		92		70-130	2		30
Bromoform	87		86		70-130	1		30
1,1,2,2-Tetrachloroethane	90		93		70-130	3		30
Benzene	94		93		70-130	1		30
Toluene	93		93		70-130	0		30
Ethylbenzene	95		95		70-130	0		30
Chloromethane	87		85		52-130	2		30
Bromomethane	88		85		57-147	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08,10-11 Batch: WG1547011-3 WG1547011-4								
Vinyl chloride	98		92		67-130	6		30
Chloroethane	105		103		50-151	2		30
1,1-Dichloroethene	98		93		65-135	5		30
trans-1,2-Dichloroethene	99		89		70-130	11		30
Trichloroethene	96		96		70-130	0		30
1,2-Dichlorobenzene	97		92		70-130	5		30
1,3-Dichlorobenzene	100		93		70-130	7		30
1,4-Dichlorobenzene	97		92		70-130	5		30
Methyl tert butyl ether	91		91		66-130	0		30
p/m-Xylene	95		95		70-130	0		30
o-Xylene	94		96		70-130	2		30
cis-1,2-Dichloroethene	92		92		70-130	0		30
Dibromomethane	92		92		70-130	0		30
Styrene	96		97		70-130	1		30
Dichlorodifluoromethane	78		75		30-146	4		30
Acetone	81		93		54-140	14		30
Carbon disulfide	93		91		59-130	2		30
2-Butanone	82		78		70-130	5		30
Vinyl acetate	83		88		70-130	6		30
4-Methyl-2-pentanone	80		88		70-130	10		30
1,2,3-Trichloropropane	94		93		68-130	1		30
2-Hexanone	77		77		70-130	0		30
Bromochloromethane	93		92		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08,10-11 Batch: WG1547011-3 WG1547011-4								
2,2-Dichloropropane	88		85		70-130	3		30
1,2-Dibromoethane	96		101		70-130	5		30
1,3-Dichloropropane	97		98		69-130	1		30
1,1,1,2-Tetrachloroethane	95		95		70-130	0		30
Bromobenzene	95		92		70-130	3		30
n-Butylbenzene	103		96		70-130	7		30
sec-Butylbenzene	102		96		70-130	6		30
tert-Butylbenzene	102		95		70-130	7		30
o-Chlorotoluene	114		109		70-130	4		30
p-Chlorotoluene	98		92		70-130	6		30
1,2-Dibromo-3-chloropropane	74		74		68-130	0		30
Hexachlorobutadiene	107		97		67-130	10		30
Isopropylbenzene	100		94		70-130	6		30
p-Isopropyltoluene	103		95		70-130	8		30
Naphthalene	83		82		70-130	1		30
Acrylonitrile	**44**	Q	**47**	Q	70-130	7		30
n-Propylbenzene	100		93		70-130	7		30
1,2,3-Trichlorobenzene	90		89		70-130	1		30
1,2,4-Trichlorobenzene	93		90		70-130	3		30
1,3,5-Trimethylbenzene	101		95		70-130	6		30
1,2,4-Trimethylbenzene	99		95		70-130	4		30
1,4-Dioxane	92		95		65-136	3		30
p-Diethylbenzene	104		95		70-130	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08,10-11 Batch: WG1547011-3 WG1547011-4								
p-Ethyltoluene	102		94		70-130	8		30
1,2,4,5-Tetramethylbenzene	87		83		70-130	5		30
Ethyl ether	96		96		67-130	0		30
trans-1,4-Dichloro-2-butene	89		90		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		101		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	97		94		70-130
Dibromofluoromethane	95		97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09 Batch: WG1547649-3 WG1547649-4								
Methylene chloride	97		97		70-130	0		30
1,1-Dichloroethane	92		92		70-130	0		30
Chloroform	92		96		70-130	4		30
Carbon tetrachloride	92		93		70-130	1		30
1,2-Dichloropropane	92		94		70-130	2		30
Dibromochloromethane	87		92		70-130	6		30
1,1,2-Trichloroethane	92		93		70-130	1		30
Tetrachloroethene	102		100		70-130	2		30
Chlorobenzene	94		94		70-130	0		30
Trichlorofluoromethane	102		101		70-139	1		30
1,2-Dichloroethane	95		97		70-130	2		30
1,1,1-Trichloroethane	94		94		70-130	0		30
Bromodichloromethane	87		89		70-130	2		30
trans-1,3-Dichloropropene	86		89		70-130	3		30
cis-1,3-Dichloropropene	85		91		70-130	7		30
1,1-Dichloropropene	95		96		70-130	1		30
Bromoform	83		83		70-130	0		30
1,1,2,2-Tetrachloroethane	93		95		70-130	2		30
Benzene	93		95		70-130	2		30
Toluene	95		95		70-130	0		30
Ethylbenzene	98		96		70-130	2		30
Chloromethane	90		90		52-130	0		30
Bromomethane	94		91		57-147	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09 Batch: WG1547649-3 WG1547649-4								
Vinyl chloride	100		101		67-130	1		30
Chloroethane	114		117		50-151	3		30
1,1-Dichloroethene	98		98		65-135	0		30
trans-1,2-Dichloroethene	97		89		70-130	9		30
Trichloroethene	96		97		70-130	1		30
1,2-Dichlorobenzene	98		93		70-130	5		30
1,3-Dichlorobenzene	102		94		70-130	8		30
1,4-Dichlorobenzene	97		93		70-130	4		30
Methyl tert butyl ether	86		89		66-130	3		30
p/m-Xylene	96		96		70-130	0		30
o-Xylene	97		96		70-130	1		30
cis-1,2-Dichloroethene	90		91		70-130	1		30
Dibromomethane	86		91		70-130	6		30
Styrene	98		97		70-130	1		30
Dichlorodifluoromethane	83		81		30-146	2		30
Acetone	89		74		54-140	18		30
Carbon disulfide	94		97		59-130	3		30
2-Butanone	85		87		70-130	2		30
Vinyl acetate	81		89		70-130	9		30
4-Methyl-2-pentanone	80		88		70-130	10		30
1,2,3-Trichloropropane	93		94		68-130	1		30
2-Hexanone	82		86		70-130	5		30
Bromochloromethane	90		92		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09 Batch: WG1547649-3 WG1547649-4								
2,2-Dichloropropane	84		87		70-130	4		30
1,2-Dibromoethane	95		100		70-130	5		30
1,3-Dichloropropane	96		98		69-130	2		30
1,1,1,2-Tetrachloroethane	90		94		70-130	4		30
Bromobenzene	95		89		70-130	7		30
n-Butylbenzene	108		100		70-130	8		30
sec-Butylbenzene	106		99		70-130	7		30
tert-Butylbenzene	105		97		70-130	8		30
o-Chlorotoluene	102		95		70-130	7		30
p-Chlorotoluene	101		94		70-130	7		30
1,2-Dibromo-3-chloropropane	71		73		68-130	3		30
Hexachlorobutadiene	108		98		67-130	10		30
Isopropylbenzene	102		95		70-130	7		30
p-Isopropyltoluene	106		98		70-130	8		30
Naphthalene	83		82		70-130	1		30
Acrylonitrile	71		78		70-130	9		30
n-Propylbenzene	102		96		70-130	6		30
1,2,3-Trichlorobenzene	93		88		70-130	6		30
1,2,4-Trichlorobenzene	93		88		70-130	6		30
1,3,5-Trimethylbenzene	104		97		70-130	7		30
1,2,4-Trimethylbenzene	103		95		70-130	8		30
1,4-Dioxane	79		87		65-136	10		30
p-Diethylbenzene	107		98		70-130	9		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09 Batch: WG1547649-3 WG1547649-4								
p-Ethyltoluene	103		96		70-130	7		30
1,2,4,5-Tetramethylbenzene	88		84		70-130	5		30
Ethyl ether	96		99		67-130	3		30
trans-1,4-Dichloro-2-butene	92		88		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		103		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	100		92		70-130
Dibromofluoromethane	92		98		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09 QC Batch ID: WG1547649-6 WG1547649-7 QC Sample: L2149178-09 Client ID: EP64_-3												
Methylene chloride	ND	108	110	101		100	97		70-130	6		30
1,1-Dichloroethane	ND	108	110	100		99	93		70-130	9		30
Chloroform	ND	108	110	99		95	90		70-130	11		30
Carbon tetrachloride	ND	108	110	103		96	90		70-130	14		30
1,2-Dichloropropane	ND	108	110	100		97	91		70-130	11		30
Dibromochloromethane	ND	108	110	98		96	91		70-130	9		30
1,1,2-Trichloroethane	ND	108	100	95		94	88		70-130	9		30
Tetrachloroethene	ND	108	110	102		78	74		70-130	**34**	Q	30
Chlorobenzene	ND	108	99	92		76	71		70-130	26		30
Trichlorofluoromethane	ND	108	110	102		110	99		70-139	5		30
1,2-Dichloroethane	ND	108	100	96		94	88		70-130	10		30
1,1,1-Trichloroethane	ND	108	110	104		98	93		70-130	13		30
Bromodichloromethane	ND	108	100	96		93	88		70-130	10		30
trans-1,3-Dichloropropene	ND	108	100	93		88	83		70-130	13		30
cis-1,3-Dichloropropene	ND	108	100	95		88	83		70-130	15		30
1,1-Dichloropropene	ND	108	110	101		92	87		70-130	17		30
Bromoform	ND	108	110	101		96	90		70-130	13		30
1,1,2,2-Tetrachloroethane	ND	108	110	98		92	87		70-130	13		30
Benzene	ND	108	110	100		94	89		70-130	14		30
Toluene	ND	108	100	96		83	78		70-130	22		30
Ethylbenzene	ND	108	100	94		70	**66**	Q	70-130	**37**	Q	30
Chloromethane	ND	108	100	92		96	90		52-130	4		30
Bromomethane	ND	108	96	89		93	88		57-147	3		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09 QC Batch ID: WG1547649-6 WG1547649-7 QC Sample: L2149178-09 Client ID: EP64_-3												
Vinyl chloride	ND	108	110	105		110	101		67-130	5		30
Chloroethane	ND	108	130	120		120	117		50-151	4		30
1,1-Dichloroethene	ND	108	110	102		100	96		65-135	8		30
trans-1,2-Dichloroethene	ND	108	100	97		96	90		70-130	8		30
Trichloroethene	ND	108	110	102		88	83		70-130	22		30
1,2-Dichlorobenzene	ND	108	94	88		64	**60**	Q	70-130	**39**	Q	30
1,3-Dichlorobenzene	ND	108	93	86		58	**54**	Q	70-130	**47**	Q	30
1,4-Dichlorobenzene	ND	108	90	83		57	**53**	Q	70-130	**45**	Q	30
Methyl tert butyl ether	ND	108	99	92		95	90		66-130	5		30
p/m-Xylene	ND	215	200	92		130	**63**	Q	70-130	**39**	Q	30
o-Xylene	ND	215	200	94		140	**68**	Q	70-130	**33**	Q	30
cis-1,2-Dichloroethene	ND	108	110	98		95	89		70-130	10		30
Dibromomethane	ND	108	98	91		89	84		70-130	9		30
Styrene	ND	215	190	90		140	**64**	Q	70-130	**36**	Q	30
Dichlorodifluoromethane	ND	108	88	82		88	83		30-146	0		30
Acetone	ND	108	95	89		90	85		54-140	5		30
Carbon disulfide	ND	108	110	102		100	96		59-130	8		30
2-Butanone	ND	108	86	80		74	70		70-130	15		30
Vinyl acetate	ND	108	34	**31**	Q	57	**54**	Q	70-130	**52**	Q	30
4-Methyl-2-pentanone	ND	108	94	88		88	83		70-130	7		30
1,2,3-Trichloropropane	ND	108	100	94		86	81		68-130	16		30
2-Hexanone	ND	108	89	83		76	72		70-130	16		30
Bromochloromethane	ND	108	100	96		95	89		70-130	9		30

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09 QC Batch ID: WG1547649-6 WG1547649-7 QC Sample: L2149178-09 Client ID: EP64_-3												
2,2-Dichloropropane	ND	108	98	91		91	86		70-130	7		30
1,2-Dibromoethane	ND	108	110	99		97	92		70-130	9		30
1,3-Dichloropropane	ND	108	100	97		96	90		69-130	8		30
1,1,1,2-Tetrachloroethane	ND	108	110	104		93	88		70-130	18		30
Bromobenzene	ND	108	100	96		73	**68**	Q	70-130	**35**	Q	30
n-Butylbenzene	ND	108	89	83		38	**36**	Q	70-130	**80**	Q	30
sec-Butylbenzene	ND	108	100	93		49	**47**	Q	70-130	**68**	Q	30
tert-Butylbenzene	ND	108	110	100		59	**56**	Q	70-130	**58**	Q	30
o-Chlorotoluene	ND	108	100	92		62	**58**	Q	70-130	**46**	Q	30
p-Chlorotoluene	ND	108	95	88		57	**54**	Q	70-130	**50**	Q	30
1,2-Dibromo-3-chloropropane	ND	108	86	80		79	74		68-130	8		30
Hexachlorobutadiene	ND	108	85	79		32	**30**	Q	67-130	**91**	Q	30
Isopropylbenzene	ND	108	110	100		65	**61**	Q	70-130	**49**	Q	30
p-Isopropyltoluene	ND	108	97	90		47	**44**	Q	70-130	**69**	Q	30
Naphthalene	ND	108	84	78		62	**59**	Q	70-130	29		30
Acrylonitrile	ND	108	88	82		86	81		70-130	3		30
n-Propylbenzene	ND	108	100	93		54	**51**	Q	70-130	**59**	Q	30
1,2,3-Trichlorobenzene	ND	108	80	74		50	**47**	Q	70-130	**45**	Q	30
1,2,4-Trichlorobenzene	ND	108	78	73		47	**44**	Q	70-130	**49**	Q	30
1,3,5-Trimethylbenzene	ND	108	100	95		58	**55**	Q	70-130	**55**	Q	30
1,2,4-Trimethylbenzene	ND	108	98	91		56	**53**	Q	70-130	**54**	Q	30
1,4-Dioxane	ND	5380	5200	97		5800	109		65-136	10		30
p-Diethylbenzene	ND	108	91	85		42	**39**	Q	70-130	**74**	Q	30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09 QC Batch ID: WG1547649-6 WG1547649-7 QC Sample: L2149178-09 Client ID: EP64_-3												
p-Ethyltoluene	ND	108	99	92		54	**51**	Q	70-130	**59**	Q	30
1,2,4,5-Tetramethylbenzene	ND	108	83	77		43	**40**	Q	70-130	**64**	Q	30
Ethyl ether	ND	108	100	95		97	92		67-130	5		30
trans-1,4-Dichloro-2-butene	ND	108	85	79		72	**68**	Q	70-130	16		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		97		70-130
4-Bromofluorobenzene	99		96		70-130
Dibromofluoromethane	97		95		70-130
Toluene-d8	102		103		70-130

SEMIVOLATILES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-01
Client ID: EP46_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:00
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/15/21 02:41
Analyst: EK
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 09:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	220	21.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	43.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	140		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	33.	1
Bis(2-ethylhexyl)phthalate	150	J	ug/kg	220	75.	1
Butyl benzyl phthalate	60	J	ug/kg	220	54.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-01 Date Collected: 09/13/21 10:00

Client ID: EP46_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	45.	1
Benzo(a)anthracene	70	J	ug/kg	130	24.	1
Benzo(a)pyrene	83	J	ug/kg	170	53.	1
Benzo(b)fluoranthene	120	J	ug/kg	130	36.	1
Benzo(k)fluoranthene	43	J	ug/kg	130	35.	1
Chrysene	83	J	ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	73	J	ug/kg	170	25.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	75	J	ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	80	J	ug/kg	170	30.	1
Pyrene	110	J	ug/kg	130	22.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	220	39.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	ND		ug/kg	220	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	22.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	190	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	71.	1
2-Nitrophenol	ND		ug/kg	470	81.	1
4-Nitrophenol	ND		ug/kg	300	88.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-01 Date Collected: 09/13/21 10:00

Client ID: EP46_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	41.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	220	66.	1
Carbazole	21	J	ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	32	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	47		30-120
2,4,6-Tribromophenol	50		10-136
4-Terphenyl-d14	39		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-01
Client ID: EP46_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:00
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/15/21 21:21
Analyst: SG
Percent Solids: 77%

Extraction Method: ALPHA 23528
Extraction Date: 09/14/21 11:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.636	0.029	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.636	0.059	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.318	0.050	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.636	0.067	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.318	0.057	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.318	0.077	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.318	0.053	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.636	0.228	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.636	0.174	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.318	0.095	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.318	0.165	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.318	0.085	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.636	0.365	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.636	0.256	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.636	0.060	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.636	0.194	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.636	0.125	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.636	0.107	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.636	0.089	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.636	0.260	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.636	0.069	1
PFOA/PFOS, Total	ND		ng/g	0.318	0.053	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-01 Date Collected: 09/13/21 10:00

Client ID: EP46_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	99		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	95		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	100		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	104		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	101		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	99		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	98		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	98		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	104		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	104		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	82		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	105		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	106		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	84		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	97		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	78		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-02
Client ID: EP47_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:05
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/14/21 23:55
Analyst: EK
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 09:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	73.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-02 Date Collected: 09/13/21 10:05

Client ID: EP47_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	51.	1
Benzo(b)fluoranthene	ND		ug/kg	130	35.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	130	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	87.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	79.	1
4-Nitrophenol	ND		ug/kg	300	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-02 Date Collected: 09/13/21 10:05

Client ID: EP47_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	ND		ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	32	9.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	53		10-136
4-Terphenyl-d14	54		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-02
Client ID: EP47_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:05
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/15/21 21:38
Analyst: SG
Percent Solids: 77%

Extraction Method: ALPHA 23528
Extraction Date: 09/14/21 11:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.616	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.616	0.057	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.308	0.048	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.616	0.065	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.308	0.056	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.308	0.075	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.308	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.616	0.221	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.616	0.168	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.308	0.092	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.308	0.160	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.308	0.083	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.616	0.353	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.616	0.248	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.616	0.058	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.616	0.188	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.616	0.121	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.616	0.104	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.616	0.086	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.616	0.252	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.616	0.067	1
PFOA/PFOS, Total	ND		ng/g	0.308	0.052	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-02 Date Collected: 09/13/21 10:05

Client ID: EP47_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	98		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	100		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	103		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	99		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	99		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	96		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	104		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	105		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	99		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	112		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	76		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	57		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	78		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	95		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	74		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-03
Client ID: EP48_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:10
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/15/21 05:26
Analyst: JG
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 09:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	37.	1
1,4-Dichlorobenzene	ND		ug/kg	210	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	57.	1
2,4-Dinitrotoluene	ND		ug/kg	210	43.	1
2,6-Dinitrotoluene	ND		ug/kg	210	37.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	74.	1
Butyl benzyl phthalate	ND		ug/kg	210	54.	1
Di-n-butylphthalate	ND		ug/kg	210	41.	1
Di-n-octylphthalate	ND		ug/kg	210	73.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-03 Date Collected: 09/13/21 10:10

Client ID: EP48_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	45.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	210	39.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	89.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	71.	1
2-Nitrophenol	ND		ug/kg	460	81.	1
4-Nitrophenol	ND		ug/kg	300	88.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-03 Date Collected: 09/13/21 10:10

Client ID: EP48_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	41.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	210	66.	1
Carbazole	ND		ug/kg	210	21.	1
1,4-Dioxane	ND		ug/kg	32	9.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		25-120
Phenol-d6	46		10-120
Nitrobenzene-d5	48		23-120
2-Fluorobiphenyl	46		30-120
2,4,6-Tribromophenol	50		10-136
4-Terphenyl-d14	34		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-03
Client ID: EP48_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:10
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/15/21 21:55
Analyst: SG
Percent Solids: 77%

Extraction Method: ALPHA 23528
Extraction Date: 09/14/21 11:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.580	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.580	0.053	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.290	0.045	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.580	0.061	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.290	0.052	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.290	0.070	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.290	0.049	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.580	0.208	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.580	0.158	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.290	0.087	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.290	0.151	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.290	0.078	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.580	0.333	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.580	0.234	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.580	0.054	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.580	0.178	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.580	0.114	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.580	0.098	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.580	0.081	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.580	0.237	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.580	0.063	1
PFOA/PFOS, Total	ND		ng/g	0.290	0.049	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-03 Date Collected: 09/13/21 10:10

Client ID: EP48_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	102		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	96		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	106		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	104		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	103		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	104		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	101		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	107		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	103		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	115		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	84		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	109		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	52		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	85		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	102		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	78		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-04
Client ID: EP54_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:15
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/15/21 01:29
Analyst: EK
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 09:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	37.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	57.	1
2,4-Dinitrotoluene	ND		ug/kg	210	43.	1
2,6-Dinitrotoluene	ND		ug/kg	210	37.	1
Fluoranthene	250		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	74.	1
Butyl benzyl phthalate	ND		ug/kg	210	54.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	73.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-04 Date Collected: 09/13/21 10:15

Client ID: EP54_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	45.	1
Benzo(a)anthracene	130		ug/kg	130	24.	1
Benzo(a)pyrene	130	J	ug/kg	170	52.	1
Benzo(b)fluoranthene	180		ug/kg	130	36.	1
Benzo(k)fluoranthene	56	J	ug/kg	130	34.	1
Chrysene	130		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	91	J	ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	96	J	ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	100	J	ug/kg	170	30.	1
Pyrene	220		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	210	39.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	88.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	80.	1
4-Nitrophenol	ND		ug/kg	300	87.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	33.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-04 Date Collected: 09/13/21 10:15

Client ID: EP54_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	41.	1
Benzoic Acid	ND		ug/kg	690	220	1
Benzyl Alcohol	ND		ug/kg	210	65.	1
Carbazole	ND		ug/kg	210	21.	1
1,4-Dioxane	ND		ug/kg	32	9.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	61		10-136
4-Terphenyl-d14	61		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-04
Client ID: EP54_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:15
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/15/21 22:11
Analyst: SG
Percent Solids: 77%

Extraction Method: ALPHA 23528
Extraction Date: 09/14/21 11:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.624	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.624	0.057	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.312	0.049	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.624	0.066	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.312	0.056	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.312	0.076	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.312	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.624	0.224	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.624	0.170	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.312	0.094	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.312	0.162	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.312	0.084	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.624	0.358	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.624	0.251	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.624	0.058	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.624	0.191	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.624	0.122	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.624	0.105	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.624	0.087	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.624	0.255	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.624	0.067	1
PFOA/PFOS, Total	ND		ng/g	0.312	0.052	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-04 Date Collected: 09/13/21 10:15

Client ID: EP54_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	102		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	96		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	101		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	106		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	102		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	99		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	106		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	110		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	115		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	86		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	106		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	36		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	90		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	99		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	86		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-05
Client ID: EP55_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:20
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/15/21 05:49
Analyst: JG
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 09:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	30	J	ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	530		ug/kg	210	72.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-05 Date Collected: 09/13/21 10:20

Client ID: EP55_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	120	24.	1
Benzo(a)pyrene	ND		ug/kg	170	51.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	120	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	24.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	32	J	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	ND		ug/kg	120	21.	1
Biphenyl	ND		ug/kg	480	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	55	J	ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	79.	1
4-Nitrophenol	ND		ug/kg	290	85.	1
2,4-Dinitrophenol	ND		ug/kg	1000	97.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-05 Date Collected: 09/13/21 10:20

Client ID: EP55_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	ND		ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	31	9.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		25-120
Phenol-d6	56		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	48		30-120
2,4,6-Tribromophenol	61		10-136
4-Terphenyl-d14	38		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-05
Client ID: EP55_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:20
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/15/21 22:28
Analyst: SG
Percent Solids: 77%

Extraction Method: ALPHA 23528
Extraction Date: 09/14/21 11:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.587	0.027	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.587	0.054	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.293	0.046	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.587	0.062	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.293	0.053	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.293	0.071	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.293	0.049	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.587	0.211	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.587	0.160	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.293	0.088	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.293	0.152	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.293	0.079	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.587	0.337	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.587	0.236	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.587	0.055	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.587	0.180	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.587	0.115	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.587	0.099	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.587	0.082	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.587	0.240	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.587	0.063	1
PFOA/PFOS, Total	ND		ng/g	0.293	0.049	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-05 Date Collected: 09/13/21 10:20

Client ID: EP55_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	103		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	111		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	107		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	107		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	105		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	110		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	105		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	122		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	86		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	111		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	36		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	95		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	101		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	87		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-06
Client ID: EP56_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:25
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/15/21 00:18
Analyst: EK
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 09:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	44.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	200	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	200	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	55.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-06 Date Collected: 09/13/21 10:25

Client ID: EP56_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	37.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	ND		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	170	34.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	26.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	50.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	72.	1
2-Nitrophenol	ND		ug/kg	470	82.	1
4-Nitrophenol	ND		ug/kg	300	89.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	570	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-06 Date Collected: 09/13/21 10:25

Client ID: EP56_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	42.	1
Benzoic Acid	ND		ug/kg	710	220	1
Benzyl Alcohol	ND		ug/kg	220	67.	1
Carbazole	ND		ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	33	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	59		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-06
Client ID: EP56_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:25
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/15/21 22:45
Analyst: SG
Percent Solids: 76%

Extraction Method: ALPHA 23528
Extraction Date: 09/14/21 11:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.601	0.027	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.601	0.055	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.301	0.047	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.601	0.063	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.301	0.054	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.301	0.073	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.301	0.050	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.601	0.216	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.601	0.164	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.301	0.090	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.301	0.156	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.301	0.081	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.601	0.345	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.601	0.242	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.601	0.056	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.601	0.184	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.601	0.118	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.601	0.102	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.601	0.084	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.601	0.246	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.601	0.065	1
PFOA/PFOS, Total	ND		ng/g	0.301	0.050	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-06 Date Collected: 09/13/21 10:25

Client ID: EP56_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	102		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	96		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	103		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	107		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	105		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	99		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	108		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	102		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	109		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	104		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	110		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	81		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	109		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	52		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	84		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	97		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	73		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-07
Client ID: EP62_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:30
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/15/21 02:17
Analyst: EK
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 09:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	44.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	140		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	200	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	200	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	55.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-07 Date Collected: 09/13/21 10:30

Client ID: EP62_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	74	J	ug/kg	130	24.	1
Benzo(a)pyrene	75	J	ug/kg	170	53.	1
Benzo(b)fluoranthene	98	J	ug/kg	130	37.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	73	J	ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	170	34.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	49	J	ug/kg	170	26.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	60	J	ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	56	J	ug/kg	170	30.	1
Pyrene	120	J	ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	50.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	72.	1
2-Nitrophenol	ND		ug/kg	470	82.	1
4-Nitrophenol	ND		ug/kg	300	89.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	570	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-07 Date Collected: 09/13/21 10:30

Client ID: EP62_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	42.	1
Benzoic Acid	ND		ug/kg	710	220	1
Benzyl Alcohol	ND		ug/kg	220	67.	1
Carbazole	ND		ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	33	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	95		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	67		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-07
Client ID: EP62_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:30
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/15/21 23:01
Analyst: SG
Percent Solids: 74%

Extraction Method: ALPHA 23528
Extraction Date: 09/14/21 11:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.622	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.622	0.057	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.311	0.049	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.622	0.065	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.311	0.056	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.311	0.075	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.311	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.622	0.223	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.622	0.170	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.311	0.093	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.311	0.162	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.311	0.083	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.622	0.357	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.622	0.251	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.622	0.058	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.622	0.190	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.622	0.122	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.622	0.105	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.622	0.087	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.622	0.255	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.622	0.067	1
PFOA/PFOS, Total	ND		ng/g	0.311	0.052	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-07 Date Collected: 09/13/21 10:30

Client ID: EP62_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	104		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	102		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	106		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	100		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	105		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	104		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	115		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	86		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	108		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	34		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	91		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	100		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	87		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-08
Client ID: EP63_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:35
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/15/21 01:06
Analyst: EK
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 09:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	37.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	57.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	150		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	74.	1
Butyl benzyl phthalate	ND		ug/kg	210	54.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-08 Date Collected: 09/13/21 10:35

Client ID: EP63_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	45.	1
Benzo(a)anthracene	77	J	ug/kg	130	24.	1
Benzo(a)pyrene	68	J	ug/kg	170	52.	1
Benzo(b)fluoranthene	94	J	ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	73	J	ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	49	J	ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	88	J	ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	57	J	ug/kg	170	30.	1
Pyrene	130		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	39.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	88.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	80.	1
4-Nitrophenol	ND		ug/kg	300	87.	1
2,4-Dinitrophenol	ND		ug/kg	1000	99.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	33.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-08 Date Collected: 09/13/21 10:35

Client ID: EP63_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	41.	1
Benzoic Acid	ND		ug/kg	690	220	1
Benzyl Alcohol	ND		ug/kg	210	65.	1
Carbazole	ND		ug/kg	210	21.	1
1,4-Dioxane	ND		ug/kg	32	9.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	61		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-08
Client ID: EP63_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:35
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/15/21 23:18
Analyst: SG
Percent Solids: 77%

Extraction Method: ALPHA 23528
Extraction Date: 09/14/21 11:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.622	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.622	0.057	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.311	0.049	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.622	0.065	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.311	0.056	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.311	0.075	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.311	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.622	0.223	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.622	0.170	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.311	0.093	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.311	0.162	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.311	0.083	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.622	0.357	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.622	0.251	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.622	0.058	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.622	0.190	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.622	0.122	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.622	0.105	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.622	0.087	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.622	0.254	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.622	0.067	1
PFOA/PFOS, Total	ND		ng/g	0.311	0.052	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-08 Date Collected: 09/13/21 10:35

Client ID: EP63_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	98		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	105		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	101		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	101		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	99		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	103		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	110		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	104		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	116		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	84		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	108		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	43		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	86		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	100		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	82		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-09
Client ID: EP64_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:40
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/14/21 23:31
Analyst: EK
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 09:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	72.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-09 Date Collected: 09/13/21 10:40

Client ID: EP64_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	120	24.	1
Benzo(a)pyrene	ND		ug/kg	170	51.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	34.	1
Chrysene	ND		ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	120	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	ND		ug/kg	120	21.	1
Biphenyl	ND		ug/kg	480	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	87.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	79.	1
4-Nitrophenol	ND		ug/kg	290	85.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-09 Date Collected: 09/13/21 10:40

Client ID: EP64_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	ND		ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	31	9.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	64		10-136
4-Terphenyl-d14	62		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-09
Client ID: EP64_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:40
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/15/21 23:34
Analyst: SG
Percent Solids: 80%

Extraction Method: ALPHA 23528
Extraction Date: 09/14/21 11:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.602	0.027	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.602	0.055	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.301	0.047	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.602	0.063	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.301	0.054	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.301	0.073	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.301	0.050	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.602	0.216	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.602	0.164	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.301	0.090	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.301	0.156	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.301	0.081	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.602	0.345	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.602	0.242	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.602	0.056	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.602	0.184	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.602	0.118	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.602	0.102	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.602	0.084	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.602	0.246	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.602	0.065	1
PFOA/PFOS, Total	ND		ng/g	0.301	0.050	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-09 Date Collected: 09/13/21 10:40

Client ID: EP64_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	105		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	99		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	100		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	110		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	106		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	115		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	104		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	109		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	118		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	86		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	113		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	34		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	85		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	107		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	82		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-10
Client ID: EPSW13_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 11:00
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/15/21 01:53
Analyst: EK
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 09:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	37.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	26	J	ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	72.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1
Di-n-butylphthalate	ND		ug/kg	210	39.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-10 Date Collected: 09/13/21 11:00

Client ID: EPSW13_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	170	51.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	120	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	24.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	24	J	ug/kg	120	21.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	33.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	78.	1
4-Nitrophenol	ND		ug/kg	290	85.	1
2,4-Dinitrophenol	ND		ug/kg	1000	97.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-10 Date Collected: 09/13/21 11:00

Client ID: EPSW13_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	ND		ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	31	9.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	95		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	67		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-10
Client ID: EPSW13_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 11:00
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/16/21 00:24
Analyst: SG
Percent Solids: 79%

Extraction Method: ALPHA 23528
Extraction Date: 09/14/21 11:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.586	0.027	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.586	0.054	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.293	0.046	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.586	0.062	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.293	0.053	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.293	0.071	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.293	0.049	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.586	0.210	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.586	0.160	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.293	0.088	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.293	0.152	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.293	0.079	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.586	0.336	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.586	0.236	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.586	0.055	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.586	0.179	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.586	0.115	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.586	0.099	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.586	0.082	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.586	0.239	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.586	0.063	1
PFOA/PFOS, Total	ND		ng/g	0.293	0.049	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-10 Date Collected: 09/13/21 11:00

Client ID: EPSW13_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	93		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	96		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	105		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	102		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	97		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	106		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	113		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	81		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	106		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	96		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	79		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	98		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	69		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-11
Client ID: EPSW14_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 11:10
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/15/21 00:42
Analyst: EK
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 09:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	26.	1
2-Chloronaphthalene	ND		ug/kg	200	19.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	49.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	66.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-11 Date Collected: 09/13/21 11:10

Client ID: EPSW14_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	27.	1
Pyrene	ND		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	450	45.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	ND		ug/kg	200	18.	1
2-Methylnaphthalene	ND		ug/kg	230	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	31.	1
2,4-Dimethylphenol	ND		ug/kg	200	64.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-11 Date Collected: 09/13/21 11:10

Client ID: EPSW14_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	29	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	56		10-136
4-Terphenyl-d14	53		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-11
Client ID: EPSW14_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 11:10
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/16/21 00:57
Analyst: SG
Percent Solids: 83%

Extraction Method: ALPHA 23528
Extraction Date: 09/14/21 11:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.549	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.549	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.274	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.549	0.058	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.274	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.274	0.066	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.274	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.549	0.197	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.549	0.150	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.274	0.082	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.274	0.143	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.274	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.549	0.315	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.549	0.221	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.549	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.549	0.168	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.549	0.108	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.549	0.093	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.549	0.077	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.549	0.224	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.549	0.059	1
PFOA/PFOS, Total	ND		ng/g	0.274	0.046	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-11 Date Collected: 09/13/21 11:10

Client ID: EPSW14_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	102		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	96		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	107		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	103		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	101		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	110		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	113		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	105		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	114		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	83		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	107		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	81		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	85		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	96		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	71		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/14/21 07:12
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 09/13/21 23:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1545882-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/14/21 07:12
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 09/13/21 23:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1545882-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/14/21 07:12
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 09/13/21 23:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1545882-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	72		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/15/21 20:48
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 09/14/21 11:56

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-11 Batch: WG1546113-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.234	J	ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/15/21 20:48
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 09/14/21 11:56

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-11 Batch: WG1546113-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	93		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	90		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	100		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	97		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	100		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	96		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	92		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	99		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	97		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	74		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	22		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	78		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	87		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	67		24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1545882-2 WG1545882-3								
Acenaphthene	78		75		31-137	4		50
1,2,4-Trichlorobenzene	70		63		38-107	11		50
Hexachlorobenzene	82		80		40-140	2		50
Bis(2-chloroethyl)ether	65		62		40-140	5		50
2-Chloronaphthalene	80		74		40-140	8		50
1,2-Dichlorobenzene	68		64		40-140	6		50
1,3-Dichlorobenzene	67		62		40-140	8		50
1,4-Dichlorobenzene	65		62		28-104	5		50
3,3'-Dichlorobenzidine	82		73		40-140	12		50
2,4-Dinitrotoluene	82		77		40-132	6		50
2,6-Dinitrotoluene	91		84		40-140	8		50
Fluoranthene	87		81		40-140	7		50
4-Chlorophenyl phenyl ether	83		78		40-140	6		50
4-Bromophenyl phenyl ether	87		81		40-140	7		50
Bis(2-chloroisopropyl)ether	95		88		40-140	8		50
Bis(2-chloroethoxy)methane	71		64		40-117	10		50
Hexachlorobutadiene	78		74		40-140	5		50
Hexachlorocyclopentadiene	61		56		40-140	9		50
Hexachloroethane	72		69		40-140	4		50
Isophorone	70		64		40-140	9		50
Naphthalene	75		70		40-140	7		50
Nitrobenzene	74		71		40-140	4		50
NDPA/DPA	86		82		36-157	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1545882-2 WG1545882-3								
n-Nitrosodi-n-propylamine	72		67		32-121	7		50
Bis(2-ethylhexyl)phthalate	109		102		40-140	7		50
Butyl benzyl phthalate	94		88		40-140	7		50
Di-n-butylphthalate	95		87		40-140	9		50
Di-n-octylphthalate	106		96		40-140	10		50
Diethyl phthalate	90		85		40-140	6		50
Dimethyl phthalate	81		75		40-140	8		50
Benzo(a)anthracene	91		87		40-140	4		50
Benzo(a)pyrene	96		88		40-140	9		50
Benzo(b)fluoranthene	91		88		40-140	3		50
Benzo(k)fluoranthene	93		81		40-140	14		50
Chrysene	85		79		40-140	7		50
Acenaphthylene	85		79		40-140	7		50
Anthracene	85		79		40-140	7		50
Benzo(ghi)perylene	86		80		40-140	7		50
Fluorene	86		81		40-140	6		50
Phenanthrene	83		77		40-140	8		50
Dibenzo(a,h)anthracene	82		77		40-140	6		50
Indeno(1,2,3-cd)pyrene	82		77		40-140	6		50
Pyrene	86		81		35-142	6		50
Biphenyl	77		70		37-127	10		50
4-Chloroaniline	88		82		40-140	7		50
2-Nitroaniline	96		86		47-134	11		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1545882-2 WG1545882-3								
3-Nitroaniline	88		79		26-129	11		50
4-Nitroaniline	82		77		41-125	6		50
Dibenzofuran	86		82		40-140	5		50
2-Methylnaphthalene	77		69		40-140	11		50
1,2,4,5-Tetrachlorobenzene	80		73		40-117	9		50
Acetophenone	66		61		14-144	8		50
2,4,6-Trichlorophenol	91		83		30-130	9		50
p-Chloro-m-cresol	93		85		26-103	9		50
2-Chlorophenol	76		71		25-102	7		50
2,4-Dichlorophenol	84		75		30-130	11		50
2,4-Dimethylphenol	80		73		30-130	9		50
2-Nitrophenol	83		77		30-130	8		50
4-Nitrophenol	93		89		11-114	4		50
2,4-Dinitrophenol	94		81		4-130	15		50
4,6-Dinitro-o-cresol	90		85		10-130	6		50
Pentachlorophenol	82		76		17-109	8		50
Phenol	73		67		26-90	9		50
2-Methylphenol	79		72		30-130.	9		50
3-Methylphenol/4-Methylphenol	87		80		30-130	8		50
2,4,5-Trichlorophenol	96		86		30-130	11		50
Benzoic Acid	56		36		10-110	43		50
Benzyl Alcohol	74		69		40-140	7		50
Carbazole	86		82		54-128	5		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1545882-2 WG1545882-3								
1,4-Dioxane	53		50		40-140	6		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	83		77		25-120
Phenol-d6	81		74		10-120
Nitrobenzene-d5	75		69		23-120
2-Fluorobiphenyl	80		73		30-120
2,4,6-Tribromophenol	94		88		10-136
4-Terphenyl-d14	80		73		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-11 Batch: WG1546113-2								
Perfluorobutanoic Acid (PFBA)	94		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	91		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	94		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	94		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	93		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	94		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	98		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	96		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	90		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	93		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	99		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	96		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	103		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	103		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	95		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	91		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	93		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	91		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	95		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	111		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	94		-		69-133	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-11 Batch: WG1546113-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	86				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	93				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	91				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	96				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	87				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	97				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	89				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	97				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	69				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	93				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	31				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	74				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	87				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	63				24-159

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1545882-4 WG1545882-5 QC Sample: L2149178-09 Client ID: EP64_-3												
Acenaphthene	ND	1670	950	57		780	47		31-137	20		50
1,2,4-Trichlorobenzene	ND	1670	1200	72		920	56		38-107	26		50
Hexachlorobenzene	ND	1670	880	53		740	45		40-140	17		50
Bis(2-chloroethyl)ether	ND	1670	1100	66		870	53		40-140	23		50
2-Chloronaphthalene	ND	1670	1100	66		860	52		40-140	24		50
1,2-Dichlorobenzene	ND	1670	1200	72		910	55		40-140	27		50
1,3-Dichlorobenzene	ND	1670	1100	66		890	54		40-140	21		50
1,4-Dichlorobenzene	ND	1670	1200	72		890	54		28-104	30		50
3,3'-Dichlorobenzidine	ND	1670	780	47		670	41		40-140	15		50
2,4-Dinitrotoluene	ND	1670	1000	60		810	49		40-132	21		50
2,6-Dinitrotoluene	ND	1670	1000	60		880	54		40-140	13		50
Fluoranthene	ND	1670	950	57		790	48		40-140	18		50
4-Chlorophenyl phenyl ether	ND	1670	930	56		770	47		40-140	19		50
4-Bromophenyl phenyl ether	ND	1670	870	52		730	44		40-140	18		50
Bis(2-chloroisopropyl)ether	ND	1670	1200	72		950	58		40-140	23		50
Bis(2-chloroethoxy)methane	ND	1670	1100	66		910	55		40-117	19		50
Hexachlorobutadiene	ND	1670	960	58		760	46		40-140	23		50
Hexachlorocyclopentadiene	ND	1670	560J	**34**	Q	440J	**27**	Q	40-140	24		50
Hexachloroethane	ND	1670	1100	66		840	51		40-140	27		50
Isophorone	ND	1670	1200	72		960	58		40-140	22		50
Naphthalene	ND	1670	1100	66		860	52		40-140	24		50
Nitrobenzene	ND	1670	1200	72		940	57		40-140	24		50
NDPA/DPA	ND	1670	950	57		780	47		36-157	20		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1545882-4 WG1545882-5 QC Sample: L2149178-09 Client ID: EP64_-3												
n-Nitrosodi-n-propylamine	ND	1670	1200	72		960	58		32-121	22		50
Bis(2-ethylhexyl)phthalate	ND	1670	940	56		860	52		40-140	9		50
Butyl benzyl phthalate	ND	1670	960	58		840	51		40-140	13		50
Di-n-butylphthalate	ND	1670	980	59		840	51		40-140	15		50
Di-n-octylphthalate	ND	1670	950	57		870	53		40-140	9		50
Diethyl phthalate	ND	1670	890	53		760	46		40-140	16		50
Dimethyl phthalate	ND	1670	1000	60		860	52		40-140	15		50
Benzo(a)anthracene	ND	1670	890	53		780	47		40-140	13		50
Benzo(a)pyrene	ND	1670	930	56		800	49		40-140	15		50
Benzo(b)fluoranthene	ND	1670	890	53		760	46		40-140	16		50
Benzo(k)fluoranthene	ND	1670	960	58		820	50		40-140	16		50
Chrysene	ND	1670	920	55		790	48		40-140	15		50
Acenaphthylene	ND	1670	1000	60		860	52		40-140	15		50
Anthracene	ND	1670	1000	60		840	51		40-140	17		50
Benzo(ghi)perylene	ND	1670	930	56		780	47		40-140	18		50
Fluorene	ND	1670	950	57		790	48		40-140	18		50
Phenanthrene	ND	1670	1000	60		820	50		40-140	20		50
Dibenzo(a,h)anthracene	ND	1670	940	56		800	49		40-140	16		50
Indeno(1,2,3-cd)pyrene	ND	1670	950	57		800	49		40-140	17		50
Pyrene	ND	1670	940	56		790	48		35-142	17		50
Biphenyl	ND	1670	1000	60		840	51		37-127	17		50
4-Chloroaniline	ND	1670	890	53		710	43		40-140	23		50
2-Nitroaniline	ND	1670	1100	66		880	54		47-134	22		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1545882-4 WG1545882-5 QC Sample: L2149178-09 Client ID: EP64_-3												
3-Nitroaniline	ND	1670	940	56		770	47		26-129	20		50
4-Nitroaniline	ND	1670	1000	60		820	50		41-125	20		50
Dibenzofuran	ND	1670	960	58		780	47		40-140	21		50
2-Methylnaphthalene	ND	1670	1100	66		870	53		40-140	23		50
1,2,4,5-Tetrachlorobenzene	ND	1670	1000	60		800	49		40-117	22		50
Acetophenone	ND	1670	1300	78		990	60		14-144	27		50
2,4,6-Trichlorophenol	ND	1670	980	59		810	49		30-130	19		50
p-Chloro-m-cresol	ND	1670	1100	66		900	55		26-103	20		50
2-Chlorophenol	ND	1670	1200	72		960	58		25-102	22		50
2,4-Dichlorophenol	ND	1670	1200	72		1000	61		30-130	18		50
2,4-Dimethylphenol	ND	1670	1200	72		1000	61		30-130	18		50
2-Nitrophenol	ND	1670	1200	72		930	57		30-130	25		50
4-Nitrophenol	ND	1670	910	55		800	49		11-114	13		50
2,4-Dinitrophenol	ND	1670	ND	**0**	Q	ND	**0**	Q	4-130	NC		50
4,6-Dinitro-o-cresol	ND	1670	150J	**9**	Q	160J	**10**		10-130	6		50
Pentachlorophenol	ND	1670	570	34		510	31		17-109	11		50
Phenol	ND	1670	1200	72		920	56		26-90	26		50
2-Methylphenol	ND	1670	1300	78		1000	61		30-130.	26		50
3-Methylphenol/4-Methylphenol	ND	1670	1300	78		1000	61		30-130	26		50
2,4,5-Trichlorophenol	ND	1670	1000	60		820	50		30-130	20		50
Benzoic Acid	ND	1670	ND	**0**	Q	ND	**0**	Q	10-110	NC		50
Benzyl Alcohol	ND	1670	1200	72		960	58		40-140	22		50
Carbazole	ND	1670	1000	60		840	**51**	Q	54-128	17		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1545882-4 WG1545882-5 QC Sample: L2149178-09 Client ID: EP64_-3												
1,4-Dioxane	ND	1670	780	47		580	**35**	Q	40-140	29		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	51		44		10-136
2-Fluorobiphenyl	59		49		30-120
2-Fluorophenol	72		57		25-120
4-Terphenyl-d14	49		42		18-120
Nitrobenzene-d5	71		57		23-120
Phenol-d6	76		60		10-120

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1546113-3 WG1546113-4 QC Sample: L2149178-09 Client ID: EP64_-3												
Perfluorobutanoic Acid (PFBA)	ND	6.08	5.77	95		5.35	93		71-135	8		30
Perfluoropentanoic Acid (PFPeA)	ND	6.08	5.66	93		5.24	91		69-132	8		30
Perfluorobutanesulfonic Acid (PFBS)	ND	5.4	5.14	95		4.88	95		72-128	5		30
Perfluorohexanoic Acid (PFHxA)	ND	6.08	5.76	95		5.29	92		70-132	9		30
Perfluoroheptanoic Acid (PFHpA)	ND	6.08	5.73	94		5.28	92		71-131	8		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	5.55	5.22	94		4.87	92		67-130	7		30
Perfluorooctanoic Acid (PFOA)	ND	6.08	5.94	98		5.59	97		69-133	6		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.78	5.66	98		5.36	98		64-140	5		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.78	5.15	89		4.88	89		70-132	5		30
Perfluorononanoic Acid (PFNA)	ND	6.08	5.81	96		5.43	94		72-129	7		30
Perfluorooctanesulfonic Acid (PFOS)	ND	5.64	5.75	102		5.33	100		68-136	8		30
Perfluorodecanoic Acid (PFDA)	ND	6.08	5.80	95		5.19	90		69-133	11		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.83	6.05	104		5.56	100		65-137	8		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	6.08	5.73	94		5.75	100		63-144	0		30
Perfluoroundecanoic Acid (PFUnA)	ND	6.08	5.73	94		5.47	95		64-136	5		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.86	5.58	95		5.28	95		59-134	6		30
Perfluorooctanesulfonamide (FOSA)	ND	6.08	5.56	92		5.16	89		67-137	7		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	6.08	5.71	94		4.84	84		61-139	16		30
Perfluorododecanoic Acid (PFDoA)	ND	6.08	5.75	95		5.44	94		69-135	6		30
Perfluorotridecanoic Acid (PFTrDA)	ND	6.08	6.87	113		6.76	117		66-139	2		30
Perfluorotetradecanoic Acid (PFTA)	ND	6.08	5.66	93		5.33	92		69-133	6		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1546113-3 WG1546113-4 QC Sample: L2149178-09 Client ID: EP64_-3												

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	110		123		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	114		113		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	89		90		34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	81		87		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	107		114		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	103		110		75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	105		108		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	101		105		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		102		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	100		104		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	84		88		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		103		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94		96		58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	52		49		10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		107		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98		100		75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99		101		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		98		74-139

PCBS

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-01
Client ID: EP46_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:00
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/14/21 18:16
Analyst: AD
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 09:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/14/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.0	3.73	1	A
Aroclor 1221	ND		ug/kg	42.0	4.21	1	A
Aroclor 1232	ND		ug/kg	42.0	8.92	1	A
Aroclor 1242	ND		ug/kg	42.0	5.67	1	A
Aroclor 1248	ND		ug/kg	42.0	6.31	1	A
Aroclor 1254	ND		ug/kg	42.0	4.60	1	A
Aroclor 1260	ND		ug/kg	42.0	7.77	1	A
Aroclor 1262	ND		ug/kg	42.0	5.34	1	A
Aroclor 1268	ND		ug/kg	42.0	4.36	1	A
PCBs, Total	ND		ug/kg	42.0	3.73	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-02
Client ID: EP47_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:05
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/14/21 18:23
Analyst: AD
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 09:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/14/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.9	3.81	1	A
Aroclor 1221	ND		ug/kg	42.9	4.30	1	A
Aroclor 1232	ND		ug/kg	42.9	9.10	1	A
Aroclor 1242	ND		ug/kg	42.9	5.78	1	A
Aroclor 1248	ND		ug/kg	42.9	6.44	1	A
Aroclor 1254	ND		ug/kg	42.9	4.70	1	A
Aroclor 1260	ND		ug/kg	42.9	7.93	1	A
Aroclor 1262	ND		ug/kg	42.9	5.45	1	A
Aroclor 1268	ND		ug/kg	42.9	4.45	1	A
PCBs, Total	ND		ug/kg	42.9	3.81	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-03
Client ID: EP48_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:10
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/14/21 18:30
Analyst: AD
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 09:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/14/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.5	3.77	1	A
Aroclor 1221	ND		ug/kg	42.5	4.26	1	A
Aroclor 1232	ND		ug/kg	42.5	9.01	1	A
Aroclor 1242	ND		ug/kg	42.5	5.73	1	A
Aroclor 1248	ND		ug/kg	42.5	6.37	1	A
Aroclor 1254	ND		ug/kg	42.5	4.65	1	A
Aroclor 1260	ND		ug/kg	42.5	7.85	1	A
Aroclor 1262	ND		ug/kg	42.5	5.40	1	A
Aroclor 1268	ND		ug/kg	42.5	4.40	1	A
PCBs, Total	ND		ug/kg	42.5	3.77	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-04
Client ID: EP54_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:15
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/14/21 18:37
Analyst: AD
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 09:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/14/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.2	3.74	1	A
Aroclor 1221	ND		ug/kg	42.2	4.22	1	A
Aroclor 1232	ND		ug/kg	42.2	8.94	1	A
Aroclor 1242	ND		ug/kg	42.2	5.68	1	A
Aroclor 1248	ND		ug/kg	42.2	6.32	1	A
Aroclor 1254	ND		ug/kg	42.2	4.61	1	A
Aroclor 1260	ND		ug/kg	42.2	7.79	1	A
Aroclor 1262	ND		ug/kg	42.2	5.36	1	A
Aroclor 1268	ND		ug/kg	42.2	4.37	1	A
PCBs, Total	ND		ug/kg	42.2	3.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-05
Client ID: EP55_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:20
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/14/21 18:44
Analyst: AD
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 09:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/14/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.1	3.74	1	A
Aroclor 1221	ND		ug/kg	42.1	4.22	1	A
Aroclor 1232	ND		ug/kg	42.1	8.92	1	A
Aroclor 1242	ND		ug/kg	42.1	5.67	1	A
Aroclor 1248	ND		ug/kg	42.1	6.31	1	A
Aroclor 1254	ND		ug/kg	42.1	4.60	1	A
Aroclor 1260	ND		ug/kg	42.1	7.78	1	A
Aroclor 1262	ND		ug/kg	42.1	5.34	1	A
Aroclor 1268	ND		ug/kg	42.1	4.36	1	A
PCBs, Total	ND		ug/kg	42.1	3.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-06
Client ID: EP56_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:25
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/14/21 18:51
Analyst: AD
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 09:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/14/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.6	3.78	1	A
Aroclor 1221	ND		ug/kg	42.6	4.27	1	A
Aroclor 1232	ND		ug/kg	42.6	9.03	1	A
Aroclor 1242	ND		ug/kg	42.6	5.74	1	A
Aroclor 1248	ND		ug/kg	42.6	6.39	1	A
Aroclor 1254	ND		ug/kg	42.6	4.66	1	A
Aroclor 1260	ND		ug/kg	42.6	7.87	1	A
Aroclor 1262	ND		ug/kg	42.6	5.41	1	A
Aroclor 1268	ND		ug/kg	42.6	4.41	1	A
PCBs, Total	ND		ug/kg	42.6	3.78	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-07
Client ID: EP62_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:30
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/14/21 18:58
Analyst: AD
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 09:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/14/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	44.2	3.93	1	A
Aroclor 1221	ND		ug/kg	44.2	4.43	1	A
Aroclor 1232	ND		ug/kg	44.2	9.38	1	A
Aroclor 1242	ND		ug/kg	44.2	5.96	1	A
Aroclor 1248	ND		ug/kg	44.2	6.64	1	A
Aroclor 1254	ND		ug/kg	44.2	4.84	1	A
Aroclor 1260	ND		ug/kg	44.2	8.18	1	A
Aroclor 1262	ND		ug/kg	44.2	5.62	1	A
Aroclor 1268	ND		ug/kg	44.2	4.58	1	A
PCBs, Total	ND		ug/kg	44.2	3.93	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-08
Client ID: EP63_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:35
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/14/21 19:06
Analyst: AD
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 09:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/14/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.1	3.74	1	A
Aroclor 1221	ND		ug/kg	42.1	4.22	1	A
Aroclor 1232	ND		ug/kg	42.1	8.92	1	A
Aroclor 1242	ND		ug/kg	42.1	5.67	1	A
Aroclor 1248	ND		ug/kg	42.1	6.31	1	A
Aroclor 1254	ND		ug/kg	42.1	4.60	1	A
Aroclor 1260	ND		ug/kg	42.1	7.78	1	A
Aroclor 1262	ND		ug/kg	42.1	5.34	1	A
Aroclor 1268	ND		ug/kg	42.1	4.36	1	A
PCBs, Total	ND		ug/kg	42.1	3.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-09
Client ID: EP64_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:40
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/14/21 17:54
Analyst: AD
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 09:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/14/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.0	3.64	1	A
Aroclor 1221	ND		ug/kg	41.0	4.11	1	A
Aroclor 1232	ND		ug/kg	41.0	8.70	1	A
Aroclor 1242	ND		ug/kg	41.0	5.53	1	A
Aroclor 1248	ND		ug/kg	41.0	6.16	1	A
Aroclor 1254	ND		ug/kg	41.0	4.49	1	A
Aroclor 1260	ND		ug/kg	41.0	7.59	1	A
Aroclor 1262	ND		ug/kg	41.0	5.21	1	A
Aroclor 1268	ND		ug/kg	41.0	4.25	1	A
PCBs, Total	ND		ug/kg	41.0	3.64	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-10
Client ID: EPSW13_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 11:00
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/14/21 19:13
Analyst: AD
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 09:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/14/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.9	3.54	1	A
Aroclor 1221	ND		ug/kg	39.9	4.00	1	A
Aroclor 1232	ND		ug/kg	39.9	8.46	1	A
Aroclor 1242	ND		ug/kg	39.9	5.38	1	A
Aroclor 1248	ND		ug/kg	39.9	5.99	1	A
Aroclor 1254	ND		ug/kg	39.9	4.37	1	A
Aroclor 1260	ND		ug/kg	39.9	7.38	1	A
Aroclor 1262	ND		ug/kg	39.9	5.07	1	A
Aroclor 1268	ND		ug/kg	39.9	4.14	1	A
PCBs, Total	ND		ug/kg	39.9	3.54	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-11
Client ID: EPSW14_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 11:10
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/14/21 19:20
Analyst: AD
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 09:59
Cleanup Method: EPA 3665A
Cleanup Date: 09/14/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.0	3.37	1	A
Aroclor 1221	ND		ug/kg	38.0	3.81	1	A
Aroclor 1232	ND		ug/kg	38.0	8.05	1	A
Aroclor 1242	ND		ug/kg	38.0	5.12	1	A
Aroclor 1248	ND		ug/kg	38.0	5.70	1	A
Aroclor 1254	ND		ug/kg	38.0	4.16	1	A
Aroclor 1260	ND		ug/kg	38.0	7.02	1	A
Aroclor 1262	ND		ug/kg	38.0	4.82	1	A
Aroclor 1268	ND		ug/kg	38.0	3.94	1	A
PCBs, Total	ND		ug/kg	38.0	3.37	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 09/14/21 17:33
Analyst: AD

Extraction Method: EPA 3546
Extraction Date: 09/14/21 09:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/14/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-11 Batch: WG1546063-1						
Aroclor 1016	ND		ug/kg	32.0	2.85	A
Aroclor 1221	ND		ug/kg	32.0	3.21	A
Aroclor 1232	ND		ug/kg	32.0	6.79	A
Aroclor 1242	ND		ug/kg	32.0	4.32	A
Aroclor 1248	ND		ug/kg	32.0	4.81	A
Aroclor 1254	ND		ug/kg	32.0	3.51	A
Aroclor 1260	ND		ug/kg	32.0	5.92	A
Aroclor 1262	ND		ug/kg	32.0	4.07	A
Aroclor 1268	ND		ug/kg	32.0	3.32	A
PCBs, Total	ND		ug/kg	32.0	2.85	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	74		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-11 Batch: WG1546063-2 WG1546063-3									
Aroclor 1016	88		84		40-140	5		50	A
Aroclor 1260	89		85		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		74		30-150	A
Decachlorobiphenyl	86		82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		71		30-150	B
Decachlorobiphenyl	80		75		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*	*Column*
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1546063-4 WG1546063-5 QC Sample: L2149178-09 Client ID: EP64_-3													
Aroclor 1016	ND	258	227	88		204	81		40-140	11		50	A
Aroclor 1260	ND	258	231	89		207	82		40-140	11		50	A

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*	*Column*
2,4,5,6-Tetrachloro-m-xylene	79		74		30-150	A
Decachlorobiphenyl	87		79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		71		30-150	B
Decachlorobiphenyl	77		66		30-150	B

PESTICIDES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-01
Client ID: EP46_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:00
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/15/21 15:36
Analyst: SDC
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 10:19
Cleanup Method: EPA 3620B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.96	0.384	1	A
Lindane	ND		ug/kg	0.817	0.365	1	A
Alpha-BHC	ND		ug/kg	0.817	0.232	1	A
Beta-BHC	ND		ug/kg	1.96	0.744	1	A
Heptachlor	ND		ug/kg	0.981	0.440	1	A
Aldrin	ND		ug/kg	1.96	0.691	1	A
Heptachlor epoxide	ND		ug/kg	3.68	1.10	1	A
Endrin	ND		ug/kg	0.817	0.335	1	A
Endrin aldehyde	ND		ug/kg	2.45	0.858	1	A
Endrin ketone	ND		ug/kg	1.96	0.505	1	A
Dieldrin	ND		ug/kg	1.23	0.613	1	A
4,4'-DDE	ND		ug/kg	1.96	0.454	1	A
4,4'-DDD	ND		ug/kg	1.96	0.700	1	A
4,4'-DDT	ND		ug/kg	3.68	1.58	1	A
Endosulfan I	ND		ug/kg	1.96	0.463	1	A
Endosulfan II	ND		ug/kg	1.96	0.656	1	A
Endosulfan sulfate	ND		ug/kg	0.817	0.389	1	A
Methoxychlor	ND		ug/kg	3.68	1.14	1	A
Toxaphene	ND		ug/kg	36.8	10.3	1	A
cis-Chlordane	ND		ug/kg	2.45	0.683	1	A
trans-Chlordane	ND		ug/kg	2.45	0.647	1	A
Chlordane	ND		ug/kg	16.3	6.50	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-01 Date Collected: 09/13/21 10:00

Client ID: EP46_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	101		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2149178
Project Number: 170599501
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-01
Client ID: EP46_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:00
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/16/21 17:36
Analyst: AR
Percent Solids: 77%
Methylation Date: 09/15/21 22:08

Extraction Method: EPA 8151A
Extraction Date: 09/14/21 10:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	212	13.4	1	A
2,4,5-T	ND		ug/kg	212	6.59	1	A
2,4,5-TP (Silvex)	ND		ug/kg	212	5.65	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	88		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-02
Client ID: EP47_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:05
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/15/21 15:46
Analyst: SDC
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 10:19
Cleanup Method: EPA 3620B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.96	0.384	1	A
Lindane	ND		ug/kg	0.817	0.365	1	A
Alpha-BHC	ND		ug/kg	0.817	0.232	1	A
Beta-BHC	ND		ug/kg	1.96	0.743	1	A
Heptachlor	ND		ug/kg	0.980	0.439	1	A
Aldrin	ND		ug/kg	1.96	0.690	1	A
Heptachlor epoxide	ND		ug/kg	3.68	1.10	1	A
Endrin	ND		ug/kg	0.817	0.335	1	A
Endrin aldehyde	ND		ug/kg	2.45	0.858	1	A
Endrin ketone	ND		ug/kg	1.96	0.505	1	A
Dieldrin	ND		ug/kg	1.22	0.613	1	A
4,4'-DDE	ND		ug/kg	1.96	0.453	1	B
4,4'-DDD	ND		ug/kg	1.96	0.699	1	A
4,4'-DDT	ND		ug/kg	3.68	1.58	1	B
Endosulfan I	ND		ug/kg	1.96	0.463	1	A
Endosulfan II	ND		ug/kg	1.96	0.655	1	A
Endosulfan sulfate	ND		ug/kg	0.817	0.389	1	A
Methoxychlor	ND		ug/kg	3.68	1.14	1	A
Toxaphene	ND		ug/kg	36.8	10.3	1	A
cis-Chlordane	ND		ug/kg	2.45	0.683	1	A
trans-Chlordane	ND		ug/kg	2.45	0.647	1	A
Chlordane	ND		ug/kg	16.3	6.49	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-02 Date Collected: 09/13/21 10:05

Client ID: EP47_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	102		30-150	A
Decachlorobiphenyl	99		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2149178
Project Number: 170599501
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-02
Client ID: EP47_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:05
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/16/21 20:05
Analyst: AR
Percent Solids: 77%
Methylation Date: 09/16/21 04:53

Extraction Method: EPA 8151A
Extraction Date: 09/14/21 10:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	211	13.3	1	A
2,4,5-T	ND		ug/kg	211	6.54	1	A
2,4,5-TP (Silvex)	ND		ug/kg	211	5.62	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	78		30-150	A
DCAA	68		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-03
Client ID: EP48_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:10
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/15/21 15:56
Analyst: SDC
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 10:19
Cleanup Method: EPA 3620B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.98	0.387	1	A
Lindane	ND		ug/kg	0.823	0.368	1	A
Alpha-BHC	ND		ug/kg	0.823	0.234	1	A
Beta-BHC	ND		ug/kg	1.98	0.749	1	A
Heptachlor	ND		ug/kg	0.988	0.443	1	A
Aldrin	ND		ug/kg	1.98	0.696	1	A
Heptachlor epoxide	ND		ug/kg	3.70	1.11	1	A
Endrin	ND		ug/kg	0.823	0.337	1	A
Endrin aldehyde	ND		ug/kg	2.47	0.864	1	A
Endrin ketone	ND		ug/kg	1.98	0.509	1	A
Dieldrin	ND		ug/kg	1.23	0.617	1	A
4,4'-DDE	ND		ug/kg	1.98	0.457	1	A
4,4'-DDD	ND		ug/kg	1.98	0.704	1	A
4,4'-DDT	ND		ug/kg	3.70	1.59	1	A
Endosulfan I	ND		ug/kg	1.98	0.467	1	A
Endosulfan II	ND		ug/kg	1.98	0.660	1	A
Endosulfan sulfate	ND		ug/kg	0.823	0.392	1	A
Methoxychlor	ND		ug/kg	3.70	1.15	1	A
Toxaphene	ND		ug/kg	37.0	10.4	1	A
cis-Chlordane	ND		ug/kg	2.47	0.688	1	A
trans-Chlordane	ND		ug/kg	2.47	0.652	1	A
Chlordane	ND		ug/kg	16.5	6.54	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-03 Date Collected: 09/13/21 10:10

Client ID: EP48_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-03
Client ID: EP48_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:10
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/16/21 20:23
Analyst: AR
Percent Solids: 77%
Methylation Date: 09/16/21 04:53

Extraction Method: EPA 8151A
Extraction Date: 09/14/21 10:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	217	13.7	1	A
2,4,5-T	ND		ug/kg	217	6.73	1	A
2,4,5-TP (Silvex)	ND		ug/kg	217	5.78	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	84		30-150	A
DCAA	80		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-04
Client ID: EP54_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:15
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/15/21 16:07
Analyst: SDC
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 10:19
Cleanup Method: EPA 3620B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.05	0.401	1	A
Lindane	ND		ug/kg	0.854	0.382	1	A
Alpha-BHC	ND		ug/kg	0.854	0.242	1	A
Beta-BHC	ND		ug/kg	2.05	0.777	1	A
Heptachlor	ND		ug/kg	1.02	0.459	1	A
Aldrin	ND		ug/kg	2.05	0.721	1	A
Heptachlor epoxide	ND		ug/kg	3.84	1.15	1	A
Endrin	ND		ug/kg	0.854	0.350	1	A
Endrin aldehyde	ND		ug/kg	2.56	0.896	1	A
Endrin ketone	ND		ug/kg	2.05	0.528	1	A
Dieldrin	ND		ug/kg	1.28	0.640	1	A
4,4'-DDE	1.57	J	ug/kg	2.05	0.474	1	A
4,4'-DDD	ND		ug/kg	2.05	0.731	1	A
4,4'-DDT	2.10	J	ug/kg	3.84	1.65	1	B
Endosulfan I	ND		ug/kg	2.05	0.484	1	A
Endosulfan II	ND		ug/kg	2.05	0.685	1	A
Endosulfan sulfate	ND		ug/kg	0.854	0.406	1	A
Methoxychlor	ND		ug/kg	3.84	1.20	1	A
Toxaphene	ND		ug/kg	38.4	10.8	1	A
cis-Chlordane	ND		ug/kg	2.56	0.714	1	A
trans-Chlordane	ND		ug/kg	2.56	0.676	1	A
Chlordane	ND		ug/kg	17.1	6.79	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-04 Date Collected: 09/13/21 10:15

Client ID: EP54_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2149178
Project Number: 170599501
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-04
Client ID: EP54_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:15
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/16/21 17:55
Analyst: AR
Percent Solids: 77%
Methylation Date: 09/15/21 22:08

Extraction Method: EPA 8151A
Extraction Date: 09/14/21 10:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	215	13.5	1	A
2,4,5-T	ND		ug/kg	215	6.66	1	A
2,4,5-TP (Silvex)	ND		ug/kg	215	5.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	96		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-05
Client ID: EP55_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:20
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/15/21 16:19
Analyst: SDC
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 10:19
Cleanup Method: EPA 3620B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.00	0.393	1	A
Lindane	ND		ug/kg	0.836	0.374	1	A
Alpha-BHC	ND		ug/kg	0.836	0.237	1	A
Beta-BHC	ND		ug/kg	2.00	0.760	1	A
Heptachlor	ND		ug/kg	1.00	0.450	1	A
Aldrin	ND		ug/kg	2.00	0.706	1	A
Heptachlor epoxide	ND		ug/kg	3.76	1.13	1	A
Endrin	ND		ug/kg	0.836	0.343	1	A
Endrin aldehyde	ND		ug/kg	2.51	0.877	1	A
Endrin ketone	ND		ug/kg	2.00	0.516	1	A
Dieldrin	ND		ug/kg	1.25	0.627	1	A
4,4'-DDE	0.619	J	ug/kg	2.00	0.464	1	B
4,4'-DDD	ND		ug/kg	2.00	0.715	1	A
4,4'-DDT	ND		ug/kg	3.76	1.61	1	A
Endosulfan I	ND		ug/kg	2.00	0.474	1	A
Endosulfan II	ND		ug/kg	2.00	0.670	1	A
Endosulfan sulfate	ND		ug/kg	0.836	0.398	1	A
Methoxychlor	ND		ug/kg	3.76	1.17	1	A
Toxaphene	ND		ug/kg	37.6	10.5	1	A
cis-Chlordane	ND		ug/kg	2.51	0.699	1	A
trans-Chlordane	ND		ug/kg	2.51	0.662	1	A
Chlordane	ND		ug/kg	16.7	6.64	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-05 Date Collected: 09/13/21 10:20

Client ID: EP55_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2149178
Project Number: 170599501
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-05
Client ID: EP55_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:20
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/16/21 18:13
Analyst: AR
Percent Solids: 77%
Methylation Date: 09/15/21 22:08

Extraction Method: EPA 8151A
Extraction Date: 09/14/21 10:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	210	13.2	1	A
2,4,5-T	ND		ug/kg	210	6.51	1	A
2,4,5-TP (Silvex)	ND		ug/kg	210	5.59	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	81		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-06
Client ID: EP56_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:25
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/15/21 16:30
Analyst: SDC
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 10:19
Cleanup Method: EPA 3620B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.08	0.408	1	A
Lindane	ND		ug/kg	0.868	0.388	1	A
Alpha-BHC	ND		ug/kg	0.868	0.247	1	A
Beta-BHC	ND		ug/kg	2.08	0.790	1	A
Heptachlor	ND		ug/kg	1.04	0.467	1	A
Aldrin	ND		ug/kg	2.08	0.734	1	A
Heptachlor epoxide	ND		ug/kg	3.91	1.17	1	A
Endrin	ND		ug/kg	0.868	0.356	1	A
Endrin aldehyde	ND		ug/kg	2.60	0.912	1	A
Endrin ketone	ND		ug/kg	2.08	0.537	1	A
Dieldrin	ND		ug/kg	1.30	0.651	1	A
4,4'-DDE	ND		ug/kg	2.08	0.482	1	A
4,4'-DDD	ND		ug/kg	2.08	0.743	1	A
4,4'-DDT	ND		ug/kg	3.91	1.68	1	A
Endosulfan I	ND		ug/kg	2.08	0.492	1	A
Endosulfan II	ND		ug/kg	2.08	0.696	1	A
Endosulfan sulfate	ND		ug/kg	0.868	0.413	1	A
Methoxychlor	ND		ug/kg	3.91	1.22	1	A
Toxaphene	ND		ug/kg	39.1	10.9	1	A
cis-Chlordane	ND		ug/kg	2.60	0.726	1	A
trans-Chlordane	ND		ug/kg	2.60	0.688	1	A
Chlordane	ND		ug/kg	17.4	6.90	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-06 Date Collected: 09/13/21 10:25

Client ID: EP56_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2149178
Project Number: 170599501
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-06
Client ID: EP56_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:25
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/16/21 18:32
Analyst: AR
Percent Solids: 76%
Methylation Date: 09/15/21 22:08

Extraction Method: EPA 8151A
Extraction Date: 09/14/21 10:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	218	13.7	1	A
2,4,5-T	ND		ug/kg	218	6.76	1	A
2,4,5-TP (Silvex)	ND		ug/kg	218	5.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	92		30-150	A
DCAA	81		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-07
Client ID: EP62_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:30
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/15/21 16:40
Analyst: SDC
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 10:19
Cleanup Method: EPA 3620B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.09	0.410	1	A
Lindane	ND		ug/kg	0.873	0.390	1	A
Alpha-BHC	ND		ug/kg	0.873	0.248	1	A
Beta-BHC	ND		ug/kg	2.09	0.794	1	A
Heptachlor	ND		ug/kg	1.05	0.470	1	A
Aldrin	ND		ug/kg	2.09	0.738	1	A
Heptachlor epoxide	ND		ug/kg	3.93	1.18	1	A
Endrin	ND		ug/kg	0.873	0.358	1	A
Endrin aldehyde	ND		ug/kg	2.62	0.916	1	A
Endrin ketone	ND		ug/kg	2.09	0.539	1	A
Dieldrin	ND		ug/kg	1.31	0.655	1	A
4,4'-DDE	1.16	J	ug/kg	2.09	0.484	1	B
4,4'-DDD	ND		ug/kg	2.09	0.747	1	B
4,4'-DDT	ND		ug/kg	3.93	1.68	1	B
Endosulfan I	ND		ug/kg	2.09	0.495	1	A
Endosulfan II	ND		ug/kg	2.09	0.700	1	A
Endosulfan sulfate	ND		ug/kg	0.873	0.415	1	A
Methoxychlor	ND		ug/kg	3.93	1.22	1	A
Toxaphene	ND		ug/kg	39.3	11.0	1	A
cis-Chlordane	ND		ug/kg	2.62	0.730	1	A
trans-Chlordane	ND		ug/kg	2.62	0.691	1	A
Chlordane	ND		ug/kg	17.4	6.94	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-07 Date Collected: 09/13/21 10:30

Client ID: EP62_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2149178
Project Number: 170599501
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-07
Client ID: EP62_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:30
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/16/21 18:50
Analyst: AR
Percent Solids: 74%
Methylation Date: 09/15/21 22:08

Extraction Method: EPA 8151A
Extraction Date: 09/14/21 10:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	222	14.0	1	A
2,4,5-T	ND		ug/kg	222	6.87	1	A
2,4,5-TP (Silvex)	ND		ug/kg	222	5.89	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	94		30-150	A
DCAA	106		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-08
Client ID: EP63_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:35
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/16/21 13:17
Analyst: SDC
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 10:19
Cleanup Method: EPA 3620B
Cleanup Date: 09/16/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.05	0.402	1	A
Lindane	ND		ug/kg	0.856	0.382	1	A
Alpha-BHC	ND		ug/kg	0.856	0.243	1	A
Beta-BHC	ND		ug/kg	2.05	0.778	1	A
Heptachlor	ND		ug/kg	1.03	0.460	1	A
Aldrin	ND		ug/kg	2.05	0.723	1	A
Heptachlor epoxide	ND		ug/kg	3.85	1.15	1	A
Endrin	ND		ug/kg	0.856	0.351	1	A
Endrin aldehyde	ND		ug/kg	2.57	0.898	1	A
Endrin ketone	ND		ug/kg	2.05	0.529	1	A
Dieldrin	ND		ug/kg	1.28	0.642	1	A
4,4'-DDE	ND		ug/kg	2.05	0.475	1	B
4,4'-DDD	ND		ug/kg	2.05	0.732	1	A
4,4'-DDT	ND		ug/kg	3.85	1.65	1	B
Endosulfan I	ND		ug/kg	2.05	0.485	1	A
Endosulfan II	ND		ug/kg	2.05	0.686	1	A
Endosulfan sulfate	ND		ug/kg	0.856	0.407	1	A
Methoxychlor	ND		ug/kg	3.85	1.20	1	A
Toxaphene	ND		ug/kg	38.5	10.8	1	A
cis-Chlordane	ND		ug/kg	2.57	0.715	1	A
trans-Chlordane	ND		ug/kg	2.57	0.678	1	A
Chlordane	ND		ug/kg	17.1	6.80	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-08 Date Collected: 09/13/21 10:35

Client ID: EP63_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2149178
Project Number: 170599501
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-08
Client ID: EP63_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:35
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/16/21 19:09
Analyst: AR
Percent Solids: 77%
Methylation Date: 09/15/21 22:08

Extraction Method: EPA 8151A
Extraction Date: 09/14/21 10:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	212	13.4	1	A
2,4,5-T	ND		ug/kg	212	6.57	1	A
2,4,5-TP (Silvex)	ND		ug/kg	212	5.64	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	91		30-150	A
DCAA	90		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-09
Client ID: EP64_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:40
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/15/21 15:04
Analyst: SDC
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 10:19
Cleanup Method: EPA 3620B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.98	0.389	1	A
Lindane	ND		ug/kg	0.827	0.370	1	A
Alpha-BHC	ND		ug/kg	0.827	0.235	1	A
Beta-BHC	ND		ug/kg	1.98	0.752	1	A
Heptachlor	ND		ug/kg	0.992	0.445	1	A
Aldrin	ND		ug/kg	1.98	0.699	1	A
Heptachlor epoxide	ND		ug/kg	3.72	1.12	1	A
Endrin	ND		ug/kg	0.827	0.339	1	A
Endrin aldehyde	ND		ug/kg	2.48	0.868	1	A
Endrin ketone	ND		ug/kg	1.98	0.511	1	A
Dieldrin	ND		ug/kg	1.24	0.620	1	A
4,4'-DDE	ND		ug/kg	1.98	0.459	1	A
4,4'-DDD	ND		ug/kg	1.98	0.708	1	A
4,4'-DDT	ND		ug/kg	3.72	1.60	1	A
Endosulfan I	ND		ug/kg	1.98	0.469	1	A
Endosulfan II	ND		ug/kg	1.98	0.663	1	A
Endosulfan sulfate	ND		ug/kg	0.827	0.394	1	A
Methoxychlor	ND		ug/kg	3.72	1.16	1	A
Toxaphene	ND		ug/kg	37.2	10.4	1	A
cis-Chlordane	ND		ug/kg	2.48	0.691	1	A
trans-Chlordane	ND		ug/kg	2.48	0.655	1	A
Chlordane	ND		ug/kg	16.5	6.57	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-09 Date Collected: 09/13/21 10:40

Client ID: EP64_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2149178
Project Number: 170599501
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-09
Client ID: EP64_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:40
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/16/21 16:40
Analyst: AR
Percent Solids: 80%
Methylation Date: 09/15/21 18:10

Extraction Method: EPA 8151A
Extraction Date: 09/14/21 10:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	208	13.1	1	A
2,4,5-T	ND		ug/kg	208	6.43	1	A
2,4,5-TP (Silvex)	ND		ug/kg	208	5.52	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	85		30-150	A
DCAA	75		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-10
Client ID: EPSW13_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 11:00
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/16/21 11:54
Analyst: SDC
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 10:19
Cleanup Method: EPA 3620B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.93	0.378	1	A
Lindane	ND		ug/kg	0.805	0.360	1	A
Alpha-BHC	ND		ug/kg	0.805	0.228	1	A
Beta-BHC	ND		ug/kg	1.93	0.732	1	A
Heptachlor	ND		ug/kg	0.966	0.433	1	A
Aldrin	ND		ug/kg	1.93	0.680	1	A
Heptachlor epoxide	ND		ug/kg	3.62	1.09	1	A
Endrin	ND		ug/kg	0.805	0.330	1	A
Endrin aldehyde	ND		ug/kg	2.41	0.845	1	A
Endrin ketone	ND		ug/kg	1.93	0.497	1	A
Dieldrin	ND		ug/kg	1.21	0.604	1	A
4,4'-DDE	1.00	J	ug/kg	1.93	0.447	1	B
4,4'-DDD	1.02	J	ug/kg	1.93	0.689	1	A
4,4'-DDT	ND		ug/kg	3.62	1.55	1	A
Endosulfan I	ND		ug/kg	1.93	0.456	1	A
Endosulfan II	ND		ug/kg	1.93	0.645	1	A
Endosulfan sulfate	ND		ug/kg	0.805	0.383	1	A
Methoxychlor	ND		ug/kg	3.62	1.13	1	A
Toxaphene	ND		ug/kg	36.2	10.1	1	A
cis-Chlordane	3.37		ug/kg	2.41	0.673	1	A
trans-Chlordane	3.16		ug/kg	2.41	0.637	1	A
Chlordane	ND		ug/kg	16.1	6.40	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-10 Date Collected: 09/13/21 11:00

Client ID: EPSW13_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	95		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-10
Client ID: EPSW13_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 11:00
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/16/21 20:42
Analyst: AR
Percent Solids: 79%
Methylation Date: 09/16/21 04:53

Extraction Method: EPA 8151A
Extraction Date: 09/14/21 10:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	210	13.2	1	A
2,4,5-T	ND		ug/kg	210	6.50	1	A
2,4,5-TP (Silvex)	ND		ug/kg	210	5.58	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	83		30-150	A
DCAA	71		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-11
Client ID: EPSW14_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 11:10
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/16/21 12:04
Analyst: SDC
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 09/14/21 10:22
Cleanup Method: EPA 3620B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.85	0.363	1	A
Lindane	ND		ug/kg	0.772	0.345	1	A
Alpha-BHC	ND		ug/kg	0.772	0.219	1	A
Beta-BHC	ND		ug/kg	1.85	0.702	1	A
Heptachlor	ND		ug/kg	0.926	0.415	1	A
Aldrin	ND		ug/kg	1.85	0.652	1	A
Heptachlor epoxide	ND		ug/kg	3.47	1.04	1	A
Endrin	ND		ug/kg	0.772	0.316	1	A
Endrin aldehyde	ND		ug/kg	2.31	0.810	1	A
Endrin ketone	ND		ug/kg	1.85	0.477	1	A
Dieldrin	ND		ug/kg	1.16	0.579	1	A
4,4'-DDE	ND		ug/kg	1.85	0.428	1	A
4,4'-DDD	ND		ug/kg	1.85	0.660	1	A
4,4'-DDT	ND		ug/kg	3.47	1.49	1	A
Endosulfan I	ND		ug/kg	1.85	0.437	1	A
Endosulfan II	ND		ug/kg	1.85	0.619	1	A
Endosulfan sulfate	ND		ug/kg	0.772	0.367	1	A
Methoxychlor	ND		ug/kg	3.47	1.08	1	A
Toxaphene	ND		ug/kg	34.7	9.72	1	A
cis-Chlordane	ND		ug/kg	2.31	0.645	1	A
trans-Chlordane	ND		ug/kg	2.31	0.611	1	A
Chlordane	ND		ug/kg	15.4	6.13	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2149178

Project Number: 170599501 **Report Date:** 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-11 Date Collected: 09/13/21 11:10

Client ID: EPSW14_-3 Date Received: 09/13/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	55		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2149178
Project Number: 170599501
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-11
Client ID: EPSW14_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 11:10
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/16/21 19:46
Analyst: AR
Percent Solids: 83%
Methylation Date: 09/15/21 22:08

Extraction Method: EPA 8151A
Extraction Date: 09/14/21 10:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	195	12.3	1	A
2,4,5-T	ND		ug/kg	195	6.05	1	A
2,4,5-TP (Silvex)	ND		ug/kg	195	5.19	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	86		30-150	A
DCAA	80		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/15/21 14:33
Analyst: SDC

Extraction Method: EPA 3546
Extraction Date: 09/14/21 10:19
Cleanup Method: EPA 3620B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-11 Batch: WG1546088-1						
Delta-BHC	ND		ug/kg	1.56	0.306	A
Lindane	ND		ug/kg	0.651	0.291	A
Alpha-BHC	ND		ug/kg	0.651	0.185	A
Beta-BHC	ND		ug/kg	1.56	0.592	A
Heptachlor	ND		ug/kg	0.781	0.350	A
Aldrin	ND		ug/kg	1.56	0.550	A
Heptachlor epoxide	ND		ug/kg	2.93	0.879	A
Endrin	ND		ug/kg	0.651	0.267	A
Endrin aldehyde	ND		ug/kg	1.95	0.684	A
Endrin ketone	ND		ug/kg	1.56	0.402	A
Dieldrin	ND		ug/kg	0.976	0.488	A
4,4'-DDE	ND		ug/kg	1.56	0.361	A
4,4'-DDD	ND		ug/kg	1.56	0.557	A
4,4'-DDT	ND		ug/kg	2.93	1.26	A
Endosulfan I	ND		ug/kg	1.56	0.369	A
Endosulfan II	ND		ug/kg	1.56	0.522	A
Endosulfan sulfate	ND		ug/kg	0.651	0.310	A
Methoxychlor	ND		ug/kg	2.93	0.911	A
Toxaphene	ND		ug/kg	29.3	8.20	A
cis-Chlordane	ND		ug/kg	1.95	0.544	A
trans-Chlordane	ND		ug/kg	1.95	0.516	A
Chlordane	ND		ug/kg	13.0	5.18	A

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/15/21 14:33
Analyst: SDC

Extraction Method: EPA 3546
Extraction Date: 09/14/21 10:19
Cleanup Method: EPA 3620B
Cleanup Date: 09/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-11 Batch: WG1546088-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 09/16/21 09:34
Analyst: AR

Extraction Method: EPA 8151A
Extraction Date: 09/14/21 10:42

Methylation Date: 09/15/21 18:10

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-11 Batch: WG1546099-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.04	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	75		30-150	A
DCAA	73		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-11 Batch: WG1546088-2 WG1546088-3									
Delta-BHC	103		95		30-150	8		30	A
Lindane	103		95		30-150	8		30	A
Alpha-BHC	105		98		30-150	7		30	A
Beta-BHC	99		87		30-150	13		30	A
Heptachlor	103		95		30-150	8		30	A
Aldrin	108		101		30-150	7		30	A
Heptachlor epoxide	102		94		30-150	8		30	A
Endrin	106		99		30-150	7		30	A
Endrin aldehyde	83		80		30-150	4		30	A
Endrin ketone	110		102		30-150	8		30	A
Dieldrin	116		107		30-150	8		30	A
4,4'-DDE	113		103		30-150	9		30	A
4,4'-DDD	121		112		30-150	8		30	A
4,4'-DDT	122		117		30-150	4		30	A
Endosulfan I	105		97		30-150	8		30	A
Endosulfan II	111		105		30-150	6		30	A
Endosulfan sulfate	95		85		30-150	11		30	A
Methoxychlor	113		108		30-150	5		30	A
cis-Chlordane	98		90		30-150	9		30	A
trans-Chlordane	100		92		30-150	8		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-11 Batch: WG1546088-2 WG1546088-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		90		30-150	A
Decachlorobiphenyl	90		87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		80		30-150	B
Decachlorobiphenyl	73		67		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-11 Batch: WG1546099-2 WG1546099-3									
2,4-D	83		86		30-150	4		30	A
2,4,5-T	79		80		30-150	1		30	A
2,4,5-TP (Silvex)	81		81		30-150	0		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	81		84		30-150	A
DCAA	85		86		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1546088-4 WG1546088-5 QC Sample: L2149178-09 Client ID: EP64_-3													
Delta-BHC	ND	41.2	38.3	93		35.9	91		30-150	6		50	A
Lindane	ND	41.2	40.4	98		37.4	95		30-150	8		50	A
Alpha-BHC	ND	41.2	42.9	104		38.5	97		30-150	11		50	A
Beta-BHC	ND	41.2	38.7	94		36.1	91		30-150	7		50	A
Heptachlor	ND	41.2	39.8	97		37.0	94		30-150	7		50	A
Aldrin	ND	41.2	41.1	100		37.6	95		30-150	9		50	A
Heptachlor epoxide	ND	41.2	39.1	95		36.0	91		30-150	8		50	A
Endrin	ND	41.2	40.1	97		37.4	95		30-150	7		50	A
Endrin aldehyde	ND	41.2	30.6	74		28.7	73		30-150	6		50	A
Endrin ketone	ND	41.2	41.9	102		39.9	101		30-150	5		50	A
Dieldrin	ND	41.2	43.9	107		41.0	104		30-150	7		50	A
4,4'-DDE	ND	41.2	42.6	103		39.2	99		30-150	8		50	A
4,4'-DDD	ND	41.2	45.2	110		42.0	106		30-150	7		50	A
4,4'-DDT	ND	41.2	46.2	112		43.4	110		30-150	6		50	A
Endosulfan I	ND	41.2	39.9	97		36.5	92		30-150	9		50	A
Endosulfan II	ND	41.2	42.3	103		39.5	100		30-150	7		50	A
Endosulfan sulfate	ND	41.2	35.0	85		31.4	79		30-150	11		50	A
Methoxychlor	ND	41.2	44.4	108		40.7	103		30-150	9		50	A
cis-Chlordane	ND	41.2	37.2	90		34.1	86		30-150	9		50	A
trans-Chlordane	ND	41.2	38.0	92		36.1	91		30-150	5		50	A

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1546088-4 WG1546088-5 QC Sample: L2149178-09 Client ID: EP64_-3												

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*	*Column*
2,4,5,6-Tetrachloro-m-xylene	91		85		30-150	A
Decachlorobiphenyl	87		87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		89		30-150	B
Decachlorobiphenyl	77		78		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1546099-4 WG1546099-5 QC Sample: L2149178-09 Client ID: EP64_-3													
2,4-D	ND	207	189J	91		168J	81		30-150	12		30	A
2,4,5-T	ND	207	179J	86		170J	82		30-150	5		30	A
2,4,5-TP (Silvex)	ND	207	186J	90		176J	85		30-150	6		30	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
DCAA	87		87		30-150	A
DCAA	86		85		30-150	B

METALS

Project Name: 1607 SURF AVENUE
Lab Number: L2149178
Project Number: 170599501
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-01
Client ID: EP46_-3
Sample Location: BROOKLYN, NY
Date Collected: 09/13/21 10:00
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	705		mg/kg	9.82	2.65	2	09/14/21 20:04	09/15/21 09:36	EPA 3050B	1,6010D	MP
Antimony, Total	ND		mg/kg	4.91	0.373	2	09/14/21 20:04	09/15/21 09:36	EPA 3050B	1,6010D	MP
Arsenic, Total	0.422	J	mg/kg	0.982	0.204	2	09/14/21 20:04	09/15/21 09:36	EPA 3050B	1,6010D	MP
Barium, Total	1.26		mg/kg	0.982	0.171	2	09/14/21 20:04	09/15/21 09:36	EPA 3050B	1,6010D	MP
Beryllium, Total	ND		mg/kg	0.491	0.032	2	09/14/21 20:04	09/15/21 09:36	EPA 3050B	1,6010D	MP
Cadmium, Total	ND		mg/kg	0.982	0.096	2	09/14/21 20:04	09/15/21 09:36	EPA 3050B	1,6010D	MP
Calcium, Total	173		mg/kg	9.82	3.44	2	09/14/21 20:04	09/15/21 09:36	EPA 3050B	1,6010D	MP
Chromium, Total	2.42		mg/kg	0.982	0.094	2	09/14/21 20:04	09/15/21 09:36	EPA 3050B	1,6010D	MP
Cobalt, Total	0.688	J	mg/kg	1.96	0.163	2	09/14/21 20:04	09/15/21 09:36	EPA 3050B	1,6010D	MP
Copper, Total	0.874	J	mg/kg	0.982	0.253	2	09/14/21 20:04	09/15/21 09:36	EPA 3050B	1,6010D	MP
Iron, Total	1590		mg/kg	4.91	0.887	2	09/14/21 20:04	09/15/21 09:36	EPA 3050B	1,6010D	MP
Lead, Total	3.69	J	mg/kg	4.91	0.263	2	09/14/21 20:04	09/15/21 09:36	EPA 3050B	1,6010D	MP
Magnesium, Total	366		mg/kg	9.82	1.51	2	09/14/21 20:04	09/15/21 09:36	EPA 3050B	1,6010D	MP
Manganese, Total	12.5		mg/kg	0.982	0.156	2	09/14/21 20:04	09/15/21 09:36	EPA 3050B	1,6010D	MP
Mercury, Total	ND		mg/kg	0.092	0.060	1	09/14/21 20:45	09/15/21 11:28	EPA 7471B	1,7471B	OU
Nickel, Total	3.56		mg/kg	2.46	0.238	2	09/14/21 20:04	09/15/21 09:36	EPA 3050B	1,6010D	MP
Potassium, Total	102	J	mg/kg	246	14.1	2	09/14/21 20:04	09/15/21 09:36	EPA 3050B	1,6010D	MP
Selenium, Total	ND		mg/kg	1.96	0.253	2	09/14/21 20:04	09/15/21 09:36	EPA 3050B	1,6010D	MP
Silver, Total	ND		mg/kg	0.982	0.278	2	09/14/21 20:04	09/15/21 09:36	EPA 3050B	1,6010D	MP
Sodium, Total	49.4	J	mg/kg	196	3.09	2	09/14/21 20:04	09/15/21 09:36	EPA 3050B	1,6010D	MP
Thallium, Total	ND		mg/kg	1.96	0.309	2	09/14/21 20:04	09/15/21 09:36	EPA 3050B	1,6010D	MP
Vanadium, Total	2.87		mg/kg	0.982	0.199	2	09/14/21 20:04	09/15/21 09:36	EPA 3050B	1,6010D	MP
Zinc, Total	8.92		mg/kg	4.91	0.288	2	09/14/21 20:04	09/15/21 09:36	EPA 3050B	1,6010D	MP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.4		mg/kg	1.0	1.0	1		09/17/21 06:50	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-02
Client ID: EP47_-3
Sample Location: BROOKLYN, NY
Date Collected: 09/13/21 10:05
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	433		mg/kg	10.1	2.74	2	09/14/21 20:04	09/15/21 09:41	EPA 3050B	1,6010D	MP
Antimony, Total	ND		mg/kg	5.07	0.385	2	09/14/21 20:04	09/15/21 09:41	EPA 3050B	1,6010D	MP
Arsenic, Total	ND		mg/kg	1.01	0.211	2	09/14/21 20:04	09/15/21 09:41	EPA 3050B	1,6010D	MP
Barium, Total	3.46		mg/kg	1.01	0.176	2	09/14/21 20:04	09/15/21 09:41	EPA 3050B	1,6010D	MP
Beryllium, Total	ND		mg/kg	0.507	0.034	2	09/14/21 20:04	09/15/21 09:41	EPA 3050B	1,6010D	MP
Cadmium, Total	ND		mg/kg	1.01	0.099	2	09/14/21 20:04	09/15/21 09:41	EPA 3050B	1,6010D	MP
Calcium, Total	318		mg/kg	10.1	3.55	2	09/14/21 20:04	09/15/21 09:41	EPA 3050B	1,6010D	MP
Chromium, Total	2.11		mg/kg	1.01	0.097	2	09/14/21 20:04	09/15/21 09:41	EPA 3050B	1,6010D	MP
Cobalt, Total	0.436	J	mg/kg	2.03	0.168	2	09/14/21 20:04	09/15/21 09:41	EPA 3050B	1,6010D	MP
Copper, Total	0.882	J	mg/kg	1.01	0.262	2	09/14/21 20:04	09/15/21 09:41	EPA 3050B	1,6010D	MP
Iron, Total	825		mg/kg	5.07	0.916	2	09/14/21 20:04	09/15/21 09:41	EPA 3050B	1,6010D	MP
Lead, Total	1.37	J	mg/kg	5.07	0.272	2	09/14/21 20:04	09/15/21 09:41	EPA 3050B	1,6010D	MP
Magnesium, Total	205		mg/kg	10.1	1.56	2	09/14/21 20:04	09/15/21 09:41	EPA 3050B	1,6010D	MP
Manganese, Total	8.46		mg/kg	1.01	0.161	2	09/14/21 20:04	09/15/21 09:41	EPA 3050B	1,6010D	MP
Mercury, Total	ND		mg/kg	0.090	0.059	1	09/14/21 20:45	09/15/21 11:31	EPA 7471B	1,7471B	OU
Nickel, Total	0.902	J	mg/kg	2.54	0.245	2	09/14/21 20:04	09/15/21 09:41	EPA 3050B	1,6010D	MP
Potassium, Total	108	J	mg/kg	254	14.6	2	09/14/21 20:04	09/15/21 09:41	EPA 3050B	1,6010D	MP
Selenium, Total	ND		mg/kg	2.03	0.262	2	09/14/21 20:04	09/15/21 09:41	EPA 3050B	1,6010D	MP
Silver, Total	ND		mg/kg	1.01	0.287	2	09/14/21 20:04	09/15/21 09:41	EPA 3050B	1,6010D	MP
Sodium, Total	33.3	J	mg/kg	203	3.19	2	09/14/21 20:04	09/15/21 09:41	EPA 3050B	1,6010D	MP
Thallium, Total	ND		mg/kg	2.03	0.319	2	09/14/21 20:04	09/15/21 09:41	EPA 3050B	1,6010D	MP
Vanadium, Total	2.02		mg/kg	1.01	0.206	2	09/14/21 20:04	09/15/21 09:41	EPA 3050B	1,6010D	MP
Zinc, Total	18.8		mg/kg	5.07	0.297	2	09/14/21 20:04	09/15/21 09:41	EPA 3050B	1,6010D	MP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.1		mg/kg	1.0	1.0	1		09/17/21 06:50	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2149178
Project Number: 170599501
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-03
Client ID: EP48_-3
Sample Location: BROOKLYN, NY
Date Collected: 09/13/21 10:10
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	432		mg/kg	10.2	2.76	2	09/14/21 20:04	09/15/21 10:45	EPA 3050B	1,6010D	MP
Antimony, Total	ND		mg/kg	5.12	0.389	2	09/14/21 20:04	09/15/21 10:45	EPA 3050B	1,6010D	MP
Arsenic, Total	ND		mg/kg	1.02	0.213	2	09/14/21 20:04	09/15/21 10:45	EPA 3050B	1,6010D	MP
Barium, Total	3.63		mg/kg	1.02	0.178	2	09/14/21 20:04	09/15/21 10:45	EPA 3050B	1,6010D	MP
Beryllium, Total	ND		mg/kg	0.512	0.034	2	09/14/21 20:04	09/15/21 10:45	EPA 3050B	1,6010D	MP
Cadmium, Total	ND		mg/kg	1.02	0.100	2	09/14/21 20:04	09/15/21 10:45	EPA 3050B	1,6010D	MP
Calcium, Total	156		mg/kg	10.2	3.58	2	09/14/21 20:04	09/15/21 10:45	EPA 3050B	1,6010D	MP
Chromium, Total	1.65		mg/kg	1.02	0.098	2	09/14/21 20:04	09/15/21 10:45	EPA 3050B	1,6010D	MP
Cobalt, Total	0.410	J	mg/kg	2.05	0.170	2	09/14/21 20:04	09/15/21 10:45	EPA 3050B	1,6010D	MP
Copper, Total	1.40		mg/kg	1.02	0.264	2	09/14/21 20:04	09/15/21 10:45	EPA 3050B	1,6010D	MP
Iron, Total	775		mg/kg	5.12	0.924	2	09/14/21 20:04	09/15/21 10:45	EPA 3050B	1,6010D	MP
Lead, Total	0.635	J	mg/kg	5.12	0.274	2	09/14/21 20:04	09/15/21 10:45	EPA 3050B	1,6010D	MP
Magnesium, Total	211		mg/kg	10.2	1.58	2	09/14/21 20:04	09/15/21 10:45	EPA 3050B	1,6010D	MP
Manganese, Total	6.87		mg/kg	1.02	0.163	2	09/14/21 20:04	09/15/21 10:45	EPA 3050B	1,6010D	MP
Mercury, Total	ND		mg/kg	0.087	0.056	1	09/14/21 20:45	09/15/21 11:34	EPA 7471B	1,7471B	OU
Nickel, Total	0.901	J	mg/kg	2.56	0.248	2	09/14/21 20:04	09/15/21 10:45	EPA 3050B	1,6010D	MP
Potassium, Total	115	J	mg/kg	256	14.7	2	09/14/21 20:04	09/15/21 10:45	EPA 3050B	1,6010D	MP
Selenium, Total	ND		mg/kg	2.05	0.264	2	09/14/21 20:04	09/15/21 10:45	EPA 3050B	1,6010D	MP
Silver, Total	ND		mg/kg	1.02	0.290	2	09/14/21 20:04	09/15/21 10:45	EPA 3050B	1,6010D	MP
Sodium, Total	45.4	J	mg/kg	205	3.22	2	09/14/21 20:04	09/15/21 10:45	EPA 3050B	1,6010D	MP
Thallium, Total	ND		mg/kg	2.05	0.322	2	09/14/21 20:04	09/15/21 10:45	EPA 3050B	1,6010D	MP
Vanadium, Total	1.60		mg/kg	1.02	0.208	2	09/14/21 20:04	09/15/21 10:45	EPA 3050B	1,6010D	MP
Zinc, Total	26.5		mg/kg	5.12	0.300	2	09/14/21 20:04	09/15/21 10:45	EPA 3050B	1,6010D	MP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1.6		mg/kg	1.0	1.0	1		09/17/21 06:50	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2149178
Project Number: 170599501
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-04
Client ID: EP54_-3
Sample Location: BROOKLYN, NY
Date Collected: 09/13/21 10:15
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	404		mg/kg	10.1	2.72	2	09/14/21 20:04	09/15/21 10:49	EPA 3050B	1,6010D	MP
Antimony, Total	ND		mg/kg	5.03	0.382	2	09/14/21 20:04	09/15/21 10:49	EPA 3050B	1,6010D	MP
Arsenic, Total	0.312	J	mg/kg	1.01	0.209	2	09/14/21 20:04	09/15/21 10:49	EPA 3050B	1,6010D	MP
Barium, Total	5.67		mg/kg	1.01	0.175	2	09/14/21 20:04	09/15/21 10:49	EPA 3050B	1,6010D	MP
Beryllium, Total	ND		mg/kg	0.503	0.033	2	09/14/21 20:04	09/15/21 10:49	EPA 3050B	1,6010D	MP
Cadmium, Total	ND		mg/kg	1.01	0.099	2	09/14/21 20:04	09/15/21 10:49	EPA 3050B	1,6010D	MP
Calcium, Total	815		mg/kg	10.1	3.52	2	09/14/21 20:04	09/15/21 10:49	EPA 3050B	1,6010D	MP
Chromium, Total	1.99		mg/kg	1.01	0.097	2	09/14/21 20:04	09/15/21 10:49	EPA 3050B	1,6010D	MP
Cobalt, Total	0.413	J	mg/kg	2.01	0.167	2	09/14/21 20:04	09/15/21 10:49	EPA 3050B	1,6010D	MP
Copper, Total	2.02		mg/kg	1.01	0.260	2	09/14/21 20:04	09/15/21 10:49	EPA 3050B	1,6010D	MP
Iron, Total	946		mg/kg	5.03	0.909	2	09/14/21 20:04	09/15/21 10:49	EPA 3050B	1,6010D	MP
Lead, Total	9.49		mg/kg	5.03	0.270	2	09/14/21 20:04	09/15/21 10:49	EPA 3050B	1,6010D	MP
Magnesium, Total	239		mg/kg	10.1	1.55	2	09/14/21 20:04	09/15/21 10:49	EPA 3050B	1,6010D	MP
Manganese, Total	10.4		mg/kg	1.01	0.160	2	09/14/21 20:04	09/15/21 10:49	EPA 3050B	1,6010D	MP
Mercury, Total	ND		mg/kg	0.088	0.057	1	09/14/21 20:45	09/15/21 11:38	EPA 7471B	1,7471B	OU
Nickel, Total	1.06	J	mg/kg	2.52	0.244	2	09/14/21 20:04	09/15/21 10:49	EPA 3050B	1,6010D	MP
Potassium, Total	90.9	J	mg/kg	252	14.5	2	09/14/21 20:04	09/15/21 10:49	EPA 3050B	1,6010D	MP
Selenium, Total	ND		mg/kg	2.01	0.260	2	09/14/21 20:04	09/15/21 10:49	EPA 3050B	1,6010D	MP
Silver, Total	0.735	J	mg/kg	1.01	0.285	2	09/14/21 20:04	09/15/21 10:49	EPA 3050B	1,6010D	MP
Sodium, Total	315		mg/kg	201	3.17	2	09/14/21 20:04	09/15/21 10:49	EPA 3050B	1,6010D	MP
Thallium, Total	ND		mg/kg	2.01	0.317	2	09/14/21 20:04	09/15/21 10:49	EPA 3050B	1,6010D	MP
Vanadium, Total	2.10		mg/kg	1.01	0.204	2	09/14/21 20:04	09/15/21 10:49	EPA 3050B	1,6010D	MP
Zinc, Total	16.6		mg/kg	5.03	0.295	2	09/14/21 20:04	09/15/21 10:49	EPA 3050B	1,6010D	MP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.0		mg/kg	1.0	1.0	1		09/17/21 06:50	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-05
Client ID: EP55_-3
Sample Location: BROOKLYN, NY
Date Collected: 09/13/21 10:20
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	442		mg/kg	10.1	2.72	2	09/14/21 20:04	09/15/21 10:54	EPA 3050B	1,6010D	MP
Antimony, Total	ND		mg/kg	5.03	0.382	2	09/14/21 20:04	09/15/21 10:54	EPA 3050B	1,6010D	MP
Arsenic, Total	ND		mg/kg	1.01	0.209	2	09/14/21 20:04	09/15/21 10:54	EPA 3050B	1,6010D	MP
Barium, Total	5.36		mg/kg	1.01	0.175	2	09/14/21 20:04	09/15/21 10:54	EPA 3050B	1,6010D	MP
Beryllium, Total	ND		mg/kg	0.503	0.033	2	09/14/21 20:04	09/15/21 10:54	EPA 3050B	1,6010D	MP
Cadmium, Total	ND		mg/kg	1.01	0.099	2	09/14/21 20:04	09/15/21 10:54	EPA 3050B	1,6010D	MP
Calcium, Total	306		mg/kg	10.1	3.52	2	09/14/21 20:04	09/15/21 10:54	EPA 3050B	1,6010D	MP
Chromium, Total	2.22		mg/kg	1.01	0.097	2	09/14/21 20:04	09/15/21 10:54	EPA 3050B	1,6010D	MP
Cobalt, Total	0.433	J	mg/kg	2.01	0.167	2	09/14/21 20:04	09/15/21 10:54	EPA 3050B	1,6010D	MP
Copper, Total	6.61		mg/kg	1.01	0.260	2	09/14/21 20:04	09/15/21 10:54	EPA 3050B	1,6010D	MP
Iron, Total	933		mg/kg	5.03	0.909	2	09/14/21 20:04	09/15/21 10:54	EPA 3050B	1,6010D	MP
Lead, Total	9.32		mg/kg	5.03	0.270	2	09/14/21 20:04	09/15/21 10:54	EPA 3050B	1,6010D	MP
Magnesium, Total	231		mg/kg	10.1	1.55	2	09/14/21 20:04	09/15/21 10:54	EPA 3050B	1,6010D	MP
Manganese, Total	9.12		mg/kg	1.01	0.160	2	09/14/21 20:04	09/15/21 10:54	EPA 3050B	1,6010D	MP
Mercury, Total	ND		mg/kg	0.086	0.056	1	09/14/21 20:45	09/15/21 11:41	EPA 7471B	1,7471B	OU
Nickel, Total	1.23	J	mg/kg	2.52	0.244	2	09/14/21 20:04	09/15/21 10:54	EPA 3050B	1,6010D	MP
Potassium, Total	117	J	mg/kg	252	14.5	2	09/14/21 20:04	09/15/21 10:54	EPA 3050B	1,6010D	MP
Selenium, Total	ND		mg/kg	2.01	0.260	2	09/14/21 20:04	09/15/21 10:54	EPA 3050B	1,6010D	MP
Silver, Total	ND		mg/kg	1.01	0.285	2	09/14/21 20:04	09/15/21 10:54	EPA 3050B	1,6010D	MP
Sodium, Total	312		mg/kg	201	3.17	2	09/14/21 20:04	09/15/21 10:54	EPA 3050B	1,6010D	MP
Thallium, Total	ND		mg/kg	2.01	0.317	2	09/14/21 20:04	09/15/21 10:54	EPA 3050B	1,6010D	MP
Vanadium, Total	2.15		mg/kg	1.01	0.204	2	09/14/21 20:04	09/15/21 10:54	EPA 3050B	1,6010D	MP
Zinc, Total	16.3		mg/kg	5.03	0.295	2	09/14/21 20:04	09/15/21 10:54	EPA 3050B	1,6010D	MP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.2		mg/kg	1.0	1.0	1		09/17/21 06:50	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-06
Client ID: EP56_-3
Sample Location: BROOKLYN, NY
Date Collected: 09/13/21 10:25
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	344		mg/kg	10.4	2.81	2	09/14/21 20:04	09/15/21 10:59	EPA 3050B	1,6010D	MP
Antimony, Total	ND		mg/kg	5.20	0.395	2	09/14/21 20:04	09/15/21 10:59	EPA 3050B	1,6010D	MP
Arsenic, Total	0.343	J	mg/kg	1.04	0.216	2	09/14/21 20:04	09/15/21 10:59	EPA 3050B	1,6010D	MP
Barium, Total	2.57		mg/kg	1.04	0.181	2	09/14/21 20:04	09/15/21 10:59	EPA 3050B	1,6010D	MP
Beryllium, Total	ND		mg/kg	0.520	0.034	2	09/14/21 20:04	09/15/21 10:59	EPA 3050B	1,6010D	MP
Cadmium, Total	ND		mg/kg	1.04	0.102	2	09/14/21 20:04	09/15/21 10:59	EPA 3050B	1,6010D	MP
Calcium, Total	266		mg/kg	10.4	3.64	2	09/14/21 20:04	09/15/21 10:59	EPA 3050B	1,6010D	MP
Chromium, Total	1.82		mg/kg	1.04	0.100	2	09/14/21 20:04	09/15/21 10:59	EPA 3050B	1,6010D	MP
Cobalt, Total	0.353	J	mg/kg	2.08	0.172	2	09/14/21 20:04	09/15/21 10:59	EPA 3050B	1,6010D	MP
Copper, Total	0.561	J	mg/kg	1.04	0.268	2	09/14/21 20:04	09/15/21 10:59	EPA 3050B	1,6010D	MP
Iron, Total	769		mg/kg	5.20	0.939	2	09/14/21 20:04	09/15/21 10:59	EPA 3050B	1,6010D	MP
Lead, Total	1.49	J	mg/kg	5.20	0.279	2	09/14/21 20:04	09/15/21 10:59	EPA 3050B	1,6010D	MP
Magnesium, Total	166		mg/kg	10.4	1.60	2	09/14/21 20:04	09/15/21 10:59	EPA 3050B	1,6010D	MP
Manganese, Total	6.91		mg/kg	1.04	0.165	2	09/14/21 20:04	09/15/21 10:59	EPA 3050B	1,6010D	MP
Mercury, Total	ND		mg/kg	0.107	0.070	1	09/14/21 20:45	09/15/21 11:44	EPA 7471B	1,7471B	OU
Nickel, Total	0.769	J	mg/kg	2.60	0.252	2	09/14/21 20:04	09/15/21 10:59	EPA 3050B	1,6010D	MP
Potassium, Total	81.5	J	mg/kg	260	15.0	2	09/14/21 20:04	09/15/21 10:59	EPA 3050B	1,6010D	MP
Selenium, Total	ND		mg/kg	2.08	0.268	2	09/14/21 20:04	09/15/21 10:59	EPA 3050B	1,6010D	MP
Silver, Total	ND		mg/kg	1.04	0.294	2	09/14/21 20:04	09/15/21 10:59	EPA 3050B	1,6010D	MP
Sodium, Total	41.9	J	mg/kg	208	3.27	2	09/14/21 20:04	09/15/21 10:59	EPA 3050B	1,6010D	MP
Thallium, Total	ND		mg/kg	2.08	0.327	2	09/14/21 20:04	09/15/21 10:59	EPA 3050B	1,6010D	MP
Vanadium, Total	2.21		mg/kg	1.04	0.211	2	09/14/21 20:04	09/15/21 10:59	EPA 3050B	1,6010D	MP
Zinc, Total	9.71		mg/kg	5.20	0.305	2	09/14/21 20:04	09/15/21 10:59	EPA 3050B	1,6010D	MP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1.8		mg/kg	1.0	1.1	1		09/17/21 06:50	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2149178
Project Number: 170599501
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-07
Client ID: EP62_-3
Sample Location: BROOKLYN, NY
Date Collected: 09/13/21 10:30
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	497		mg/kg	10.4	2.81	2	09/14/21 20:04	09/15/21 15:50	EPA 3050B	1,6010D	MP
Antimony, Total	ND		mg/kg	5.20	0.395	2	09/14/21 20:04	09/15/21 15:50	EPA 3050B	1,6010D	MP
Arsenic, Total	0.770	J	mg/kg	1.04	0.216	2	09/14/21 20:04	09/15/21 15:50	EPA 3050B	1,6010D	MP
Barium, Total	8.08		mg/kg	1.04	0.181	2	09/14/21 20:04	09/15/21 15:50	EPA 3050B	1,6010D	MP
Beryllium, Total	0.042	J	mg/kg	0.520	0.034	2	09/14/21 20:04	09/15/21 15:50	EPA 3050B	1,6010D	MP
Cadmium, Total	ND		mg/kg	1.04	0.102	2	09/14/21 20:04	09/15/21 15:50	EPA 3050B	1,6010D	MP
Calcium, Total	684		mg/kg	10.4	3.64	2	09/14/21 20:04	09/15/21 15:50	EPA 3050B	1,6010D	MP
Chromium, Total	2.51		mg/kg	1.04	0.100	2	09/14/21 20:04	09/15/21 15:50	EPA 3050B	1,6010D	MP
Cobalt, Total	0.520	J	mg/kg	2.08	0.173	2	09/14/21 20:04	09/15/21 15:50	EPA 3050B	1,6010D	MP
Copper, Total	2.81		mg/kg	1.04	0.268	2	09/14/21 20:04	09/15/21 15:50	EPA 3050B	1,6010D	MP
Iron, Total	1300		mg/kg	5.20	0.939	2	09/14/21 20:04	09/15/21 15:50	EPA 3050B	1,6010D	MP
Lead, Total	15.8		mg/kg	5.20	0.279	2	09/14/21 20:04	09/15/21 15:50	EPA 3050B	1,6010D	MP
Magnesium, Total	317		mg/kg	10.4	1.60	2	09/14/21 20:04	09/15/21 15:50	EPA 3050B	1,6010D	MP
Manganese, Total	13.9		mg/kg	1.04	0.165	2	09/14/21 20:04	09/15/21 15:50	EPA 3050B	1,6010D	MP
Mercury, Total	ND		mg/kg	0.094	0.061	1	09/14/21 20:45	09/15/21 11:48	EPA 7471B	1,7471B	OU
Nickel, Total	1.15	J	mg/kg	2.60	0.252	2	09/14/21 20:04	09/15/21 15:50	EPA 3050B	1,6010D	MP
Potassium, Total	128	J	mg/kg	260	15.0	2	09/14/21 20:04	09/15/21 15:50	EPA 3050B	1,6010D	MP
Selenium, Total	ND		mg/kg	2.08	0.268	2	09/14/21 20:04	09/15/21 15:50	EPA 3050B	1,6010D	MP
Silver, Total	ND		mg/kg	1.04	0.294	2	09/14/21 20:04	09/15/21 15:50	EPA 3050B	1,6010D	MP
Sodium, Total	612		mg/kg	208	3.28	2	09/14/21 20:04	09/15/21 15:50	EPA 3050B	1,6010D	MP
Thallium, Total	ND		mg/kg	2.08	0.328	2	09/14/21 20:04	09/15/21 15:50	EPA 3050B	1,6010D	MP
Vanadium, Total	2.57		mg/kg	1.04	0.211	2	09/14/21 20:04	09/15/21 15:50	EPA 3050B	1,6010D	MP
Zinc, Total	21.0		mg/kg	5.20	0.305	2	09/14/21 20:04	09/15/21 15:50	EPA 3050B	1,6010D	MP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.5		mg/kg	1.1	1.1	1		09/17/21 06:50	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2149178
Project Number: 170599501
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-08
Client ID: EP63_-3
Sample Location: BROOKLYN, NY
Date Collected: 09/13/21 10:35
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	395		mg/kg	9.94	2.68	2	09/14/21 20:04	09/15/21 15:55	EPA 3050B	1,6010D	MP
Antimony, Total	ND		mg/kg	4.97	0.378	2	09/14/21 20:04	09/15/21 15:55	EPA 3050B	1,6010D	MP
Arsenic, Total	0.368	J	mg/kg	0.994	0.207	2	09/14/21 20:04	09/15/21 15:55	EPA 3050B	1,6010D	MP
Barium, Total	4.03		mg/kg	0.994	0.173	2	09/14/21 20:04	09/15/21 15:55	EPA 3050B	1,6010D	MP
Beryllium, Total	ND		mg/kg	0.497	0.033	2	09/14/21 20:04	09/15/21 15:55	EPA 3050B	1,6010D	MP
Cadmium, Total	ND		mg/kg	0.994	0.097	2	09/14/21 20:04	09/15/21 15:55	EPA 3050B	1,6010D	MP
Calcium, Total	384		mg/kg	9.94	3.48	2	09/14/21 20:04	09/15/21 15:55	EPA 3050B	1,6010D	MP
Chromium, Total	1.69		mg/kg	0.994	0.095	2	09/14/21 20:04	09/15/21 15:55	EPA 3050B	1,6010D	MP
Cobalt, Total	0.378	J	mg/kg	1.99	0.165	2	09/14/21 20:04	09/15/21 15:55	EPA 3050B	1,6010D	MP
Copper, Total	1.63		mg/kg	0.994	0.256	2	09/14/21 20:04	09/15/21 15:55	EPA 3050B	1,6010D	MP
Iron, Total	814		mg/kg	4.97	0.898	2	09/14/21 20:04	09/15/21 15:55	EPA 3050B	1,6010D	MP
Lead, Total	5.99		mg/kg	4.97	0.266	2	09/14/21 20:04	09/15/21 15:55	EPA 3050B	1,6010D	MP
Magnesium, Total	222		mg/kg	9.94	1.53	2	09/14/21 20:04	09/15/21 15:55	EPA 3050B	1,6010D	MP
Manganese, Total	8.14		mg/kg	0.994	0.158	2	09/14/21 20:04	09/15/21 15:55	EPA 3050B	1,6010D	MP
Mercury, Total	ND		mg/kg	0.092	0.060	1	09/14/21 20:45	09/15/21 11:51	EPA 7471B	1,7471B	OU
Nickel, Total	1.00	J	mg/kg	2.48	0.240	2	09/14/21 20:04	09/15/21 15:55	EPA 3050B	1,6010D	MP
Potassium, Total	97.8	J	mg/kg	248	14.3	2	09/14/21 20:04	09/15/21 15:55	EPA 3050B	1,6010D	MP
Selenium, Total	ND		mg/kg	1.99	0.256	2	09/14/21 20:04	09/15/21 15:55	EPA 3050B	1,6010D	MP
Silver, Total	ND		mg/kg	0.994	0.281	2	09/14/21 20:04	09/15/21 15:55	EPA 3050B	1,6010D	MP
Sodium, Total	76.5	J	mg/kg	199	3.13	2	09/14/21 20:04	09/15/21 15:55	EPA 3050B	1,6010D	MP
Thallium, Total	ND		mg/kg	1.99	0.313	2	09/14/21 20:04	09/15/21 15:55	EPA 3050B	1,6010D	MP
Vanadium, Total	1.56		mg/kg	0.994	0.202	2	09/14/21 20:04	09/15/21 15:55	EPA 3050B	1,6010D	MP
Zinc, Total	11.8		mg/kg	4.97	0.291	2	09/14/21 20:04	09/15/21 15:55	EPA 3050B	1,6010D	MP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1.7		mg/kg	1.0	1.0	1		09/17/21 06:50	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2149178
Project Number: 170599501
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-09
Client ID: EP64_-3
Sample Location: BROOKLYN, NY
Date Collected: 09/13/21 10:40
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	398		mg/kg	9.54	2.57	2	09/14/21 20:04	09/15/21 09:45	EPA 3050B	1,6010D	MP
Antimony, Total	ND		mg/kg	4.77	0.362	2	09/14/21 20:04	09/15/21 09:45	EPA 3050B	1,6010D	MP
Arsenic, Total	0.372	J	mg/kg	0.954	0.198	2	09/14/21 20:04	09/15/21 09:45	EPA 3050B	1,6010D	MP
Barium, Total	2.42		mg/kg	0.954	0.166	2	09/14/21 20:04	09/15/21 09:45	EPA 3050B	1,6010D	MP
Beryllium, Total	ND		mg/kg	0.477	0.032	2	09/14/21 20:04	09/15/21 09:45	EPA 3050B	1,6010D	MP
Cadmium, Total	ND		mg/kg	0.954	0.093	2	09/14/21 20:04	09/15/21 09:45	EPA 3050B	1,6010D	MP
Calcium, Total	227		mg/kg	9.54	3.34	2	09/14/21 20:04	09/15/21 09:45	EPA 3050B	1,6010D	MP
Chromium, Total	1.84		mg/kg	0.954	0.092	2	09/14/21 20:04	09/15/21 09:45	EPA 3050B	1,6010D	MP
Cobalt, Total	0.668	J	mg/kg	1.91	0.158	2	09/14/21 20:04	09/15/21 09:45	EPA 3050B	1,6010D	MP
Copper, Total	1.34		mg/kg	0.954	0.246	2	09/14/21 20:04	09/15/21 09:45	EPA 3050B	1,6010D	MP
Iron, Total	820		mg/kg	4.77	0.861	2	09/14/21 20:04	09/15/21 09:45	EPA 3050B	1,6010D	MP
Lead, Total	1.81	J	mg/kg	4.77	0.256	2	09/14/21 20:04	09/15/21 09:45	EPA 3050B	1,6010D	MP
Magnesium, Total	177		mg/kg	9.54	1.47	2	09/14/21 20:04	09/15/21 09:45	EPA 3050B	1,6010D	MP
Manganese, Total	6.72		mg/kg	0.954	0.152	2	09/14/21 20:04	09/15/21 09:45	EPA 3050B	1,6010D	MP
Mercury, Total	ND		mg/kg	0.101	0.066	1	09/14/21 20:45	09/15/21 10:51	EPA 7471B	1,7471B	OU
Nickel, Total	1.93	J	mg/kg	2.38	0.231	2	09/14/21 20:04	09/15/21 09:45	EPA 3050B	1,6010D	MP
Potassium, Total	98.8	J	mg/kg	238	13.7	2	09/14/21 20:04	09/15/21 09:45	EPA 3050B	1,6010D	MP
Selenium, Total	ND		mg/kg	1.91	0.246	2	09/14/21 20:04	09/15/21 09:45	EPA 3050B	1,6010D	MP
Silver, Total	ND		mg/kg	0.954	0.270	2	09/14/21 20:04	09/15/21 09:45	EPA 3050B	1,6010D	MP
Sodium, Total	85.3	J	mg/kg	191	3.00	2	09/14/21 20:04	09/15/21 09:45	EPA 3050B	1,6010D	MP
Thallium, Total	ND		mg/kg	1.91	0.300	2	09/14/21 20:04	09/15/21 09:45	EPA 3050B	1,6010D	MP
Vanadium, Total	2.71		mg/kg	0.954	0.194	2	09/14/21 20:04	09/15/21 09:45	EPA 3050B	1,6010D	MP
Zinc, Total	59.4		mg/kg	4.77	0.279	2	09/14/21 20:04	09/15/21 09:45	EPA 3050B	1,6010D	MP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1.8		mg/kg	1.0	1.0	1		09/17/21 06:50	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-10
Client ID: EPSW13_-3
Sample Location: BROOKLYN, NY
Date Collected: 09/13/21 11:00
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	578		mg/kg	9.62	2.60	2	09/14/21 20:04	09/15/21 16:00	EPA 3050B	1,6010D	MP
Antimony, Total	ND		mg/kg	4.81	0.366	2	09/14/21 20:04	09/15/21 16:00	EPA 3050B	1,6010D	MP
Arsenic, Total	0.587	J	mg/kg	0.962	0.200	2	09/14/21 20:04	09/15/21 16:00	EPA 3050B	1,6010D	MP
Barium, Total	3.21		mg/kg	0.962	0.167	2	09/14/21 20:04	09/15/21 16:00	EPA 3050B	1,6010D	MP
Beryllium, Total	ND		mg/kg	0.481	0.032	2	09/14/21 20:04	09/15/21 16:00	EPA 3050B	1,6010D	MP
Cadmium, Total	ND		mg/kg	0.962	0.094	2	09/14/21 20:04	09/15/21 16:00	EPA 3050B	1,6010D	MP
Calcium, Total	395		mg/kg	9.62	3.37	2	09/14/21 20:04	09/15/21 16:00	EPA 3050B	1,6010D	MP
Chromium, Total	2.62		mg/kg	0.962	0.092	2	09/14/21 20:04	09/15/21 16:00	EPA 3050B	1,6010D	MP
Cobalt, Total	0.596	J	mg/kg	1.92	0.160	2	09/14/21 20:04	09/15/21 16:00	EPA 3050B	1,6010D	MP
Copper, Total	1.08		mg/kg	0.962	0.248	2	09/14/21 20:04	09/15/21 16:00	EPA 3050B	1,6010D	MP
Iron, Total	1180		mg/kg	4.81	0.868	2	09/14/21 20:04	09/15/21 16:00	EPA 3050B	1,6010D	MP
Lead, Total	3.12	J	mg/kg	4.81	0.258	2	09/14/21 20:04	09/15/21 16:00	EPA 3050B	1,6010D	MP
Magnesium, Total	297		mg/kg	9.62	1.48	2	09/14/21 20:04	09/15/21 16:00	EPA 3050B	1,6010D	MP
Manganese, Total	11.9		mg/kg	0.962	0.153	2	09/14/21 20:04	09/15/21 16:00	EPA 3050B	1,6010D	MP
Mercury, Total	ND		mg/kg	0.085	0.055	1	09/14/21 20:45	09/15/21 11:54	EPA 7471B	1,7471B	OU
Nickel, Total	1.38	J	mg/kg	2.40	0.233	2	09/14/21 20:04	09/15/21 16:00	EPA 3050B	1,6010D	MP
Potassium, Total	137	J	mg/kg	240	13.8	2	09/14/21 20:04	09/15/21 16:00	EPA 3050B	1,6010D	MP
Selenium, Total	ND		mg/kg	1.92	0.248	2	09/14/21 20:04	09/15/21 16:00	EPA 3050B	1,6010D	MP
Silver, Total	ND		mg/kg	0.962	0.272	2	09/14/21 20:04	09/15/21 16:00	EPA 3050B	1,6010D	MP
Sodium, Total	25.9	J	mg/kg	192	3.03	2	09/14/21 20:04	09/15/21 16:00	EPA 3050B	1,6010D	MP
Thallium, Total	ND		mg/kg	1.92	0.303	2	09/14/21 20:04	09/15/21 16:00	EPA 3050B	1,6010D	MP
Vanadium, Total	2.41		mg/kg	0.962	0.195	2	09/14/21 20:04	09/15/21 16:00	EPA 3050B	1,6010D	MP
Zinc, Total	16.8		mg/kg	4.81	0.282	2	09/14/21 20:04	09/15/21 16:00	EPA 3050B	1,6010D	MP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.6		mg/kg	1.0	1.0	1		09/17/21 06:50	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-11
Client ID: EPSW14_-3
Sample Location: BROOKLYN, NY
Date Collected: 09/13/21 11:10
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	496		mg/kg	9.32	2.52	2	09/14/21 20:04	09/15/21 16:04	EPA 3050B	1,6010D	MP
Antimony, Total	ND		mg/kg	4.66	0.354	2	09/14/21 20:04	09/15/21 16:04	EPA 3050B	1,6010D	MP
Arsenic, Total	0.550	J	mg/kg	0.932	0.194	2	09/14/21 20:04	09/15/21 16:04	EPA 3050B	1,6010D	MP
Barium, Total	1.71		mg/kg	0.932	0.162	2	09/14/21 20:04	09/15/21 16:04	EPA 3050B	1,6010D	MP
Beryllium, Total	ND		mg/kg	0.466	0.031	2	09/14/21 20:04	09/15/21 16:04	EPA 3050B	1,6010D	MP
Cadmium, Total	ND		mg/kg	0.932	0.091	2	09/14/21 20:04	09/15/21 16:04	EPA 3050B	1,6010D	MP
Calcium, Total	241		mg/kg	9.32	3.26	2	09/14/21 20:04	09/15/21 16:04	EPA 3050B	1,6010D	MP
Chromium, Total	2.03		mg/kg	0.932	0.090	2	09/14/21 20:04	09/15/21 16:04	EPA 3050B	1,6010D	MP
Cobalt, Total	0.457	J	mg/kg	1.86	0.155	2	09/14/21 20:04	09/15/21 16:04	EPA 3050B	1,6010D	MP
Copper, Total	0.569	J	mg/kg	0.932	0.240	2	09/14/21 20:04	09/15/21 16:04	EPA 3050B	1,6010D	MP
Iron, Total	958		mg/kg	4.66	0.842	2	09/14/21 20:04	09/15/21 16:04	EPA 3050B	1,6010D	MP
Lead, Total	1.57	J	mg/kg	4.66	0.250	2	09/14/21 20:04	09/15/21 16:04	EPA 3050B	1,6010D	MP
Magnesium, Total	239		mg/kg	9.32	1.44	2	09/14/21 20:04	09/15/21 16:04	EPA 3050B	1,6010D	MP
Manganese, Total	8.66		mg/kg	0.932	0.148	2	09/14/21 20:04	09/15/21 16:04	EPA 3050B	1,6010D	MP
Mercury, Total	ND		mg/kg	0.083	0.054	1	09/14/21 20:45	09/15/21 11:57	EPA 7471B	1,7471B	OU
Nickel, Total	1.01	J	mg/kg	2.33	0.226	2	09/14/21 20:04	09/15/21 16:04	EPA 3050B	1,6010D	MP
Potassium, Total	129	J	mg/kg	233	13.4	2	09/14/21 20:04	09/15/21 16:04	EPA 3050B	1,6010D	MP
Selenium, Total	ND		mg/kg	1.86	0.240	2	09/14/21 20:04	09/15/21 16:04	EPA 3050B	1,6010D	MP
Silver, Total	ND		mg/kg	0.932	0.264	2	09/14/21 20:04	09/15/21 16:04	EPA 3050B	1,6010D	MP
Sodium, Total	20.4	J	mg/kg	186	2.94	2	09/14/21 20:04	09/15/21 16:04	EPA 3050B	1,6010D	MP
Thallium, Total	ND		mg/kg	1.86	0.294	2	09/14/21 20:04	09/15/21 16:04	EPA 3050B	1,6010D	MP
Vanadium, Total	2.02		mg/kg	0.932	0.189	2	09/14/21 20:04	09/15/21 16:04	EPA 3050B	1,6010D	MP
Zinc, Total	18.0		mg/kg	4.66	0.273	2	09/14/21 20:04	09/15/21 16:04	EPA 3050B	1,6010D	MP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.0		mg/kg	0.96	0.96	1		09/17/21 06:50	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-11 Batch: WG1546156-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	09/14/21 20:04	09/15/21 09:23	1,6010D	MP
Antimony, Total	ND		mg/kg	2.00	0.152	1	09/14/21 20:04	09/15/21 09:23	1,6010D	MP
Arsenic, Total	ND		mg/kg	0.400	0.083	1	09/14/21 20:04	09/15/21 09:23	1,6010D	MP
Barium, Total	ND		mg/kg	0.400	0.070	1	09/14/21 20:04	09/15/21 09:23	1,6010D	MP
Beryllium, Total	ND		mg/kg	0.200	0.013	1	09/14/21 20:04	09/15/21 09:23	1,6010D	MP
Cadmium, Total	ND		mg/kg	0.400	0.039	1	09/14/21 20:04	09/15/21 09:23	1,6010D	MP
Calcium, Total	ND		mg/kg	4.00	1.40	1	09/14/21 20:04	09/15/21 09:23	1,6010D	MP
Chromium, Total	ND		mg/kg	0.400	0.038	1	09/14/21 20:04	09/15/21 09:23	1,6010D	MP
Cobalt, Total	ND		mg/kg	0.800	0.066	1	09/14/21 20:04	09/15/21 09:23	1,6010D	MP
Copper, Total	ND		mg/kg	0.400	0.103	1	09/14/21 20:04	09/15/21 09:23	1,6010D	MP
Iron, Total	ND		mg/kg	2.00	0.361	1	09/14/21 20:04	09/15/21 09:23	1,6010D	MP
Lead, Total	ND		mg/kg	2.00	0.107	1	09/14/21 20:04	09/15/21 09:23	1,6010D	MP
Magnesium, Total	ND		mg/kg	4.00	0.616	1	09/14/21 20:04	09/15/21 09:23	1,6010D	MP
Manganese, Total	ND		mg/kg	0.400	0.064	1	09/14/21 20:04	09/15/21 09:23	1,6010D	MP
Nickel, Total	ND		mg/kg	1.00	0.097	1	09/14/21 20:04	09/15/21 09:23	1,6010D	MP
Potassium, Total	ND		mg/kg	100	5.76	1	09/14/21 20:04	09/15/21 09:23	1,6010D	MP
Selenium, Total	ND		mg/kg	0.800	0.103	1	09/14/21 20:04	09/15/21 09:23	1,6010D	MP
Silver, Total	ND		mg/kg	0.400	0.113	1	09/14/21 20:04	09/15/21 09:23	1,6010D	MP
Sodium, Total	2.06	J	mg/kg	80.0	1.26	1	09/14/21 20:04	09/15/21 09:23	1,6010D	MP
Thallium, Total	ND		mg/kg	0.800	0.126	1	09/14/21 20:04	09/15/21 09:23	1,6010D	MP
Vanadium, Total	ND		mg/kg	0.400	0.081	1	09/14/21 20:04	09/15/21 09:23	1,6010D	MP
Zinc, Total	ND		mg/kg	2.00	0.117	1	09/14/21 20:04	09/15/21 09:23	1,6010D	MP

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-11 Batch: WG1546157-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	09/14/21 20:45	09/15/21 10:38	1,7471B	OU

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 Batch: WG1546156-2 SRM Lot Number: D109-540								
Aluminum, Total	62		-		50-150	-		
Antimony, Total	116		-		19-250	-		
Arsenic, Total	97		-		70-130	-		
Barium, Total	98		-		75-125	-		
Beryllium, Total	91		-		75-125	-		
Cadmium, Total	97		-		75-125	-		
Calcium, Total	93		-		73-128	-		
Chromium, Total	93		-		70-130	-		
Cobalt, Total	96		-		75-125	-		
Copper, Total	93		-		75-125	-		
Iron, Total	89		-		35-165	-		
Lead, Total	92		-		72-128	-		
Magnesium, Total	81		-		62-138	-		
Manganese, Total	93		-		74-126	-		
Nickel, Total	94		-		70-130	-		
Potassium, Total	80		-		59-141	-		
Selenium, Total	95		-		68-132	-		
Silver, Total	93		-		68-131	-		
Sodium, Total	90		-		35-165	-		
Thallium, Total	97		-		68-131	-		
Vanadium, Total	92		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 Batch: WG1546156-2 SRM Lot Number: D109-540					
Zinc, Total	93	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-11 Batch: WG1546157-2 SRM Lot Number: D109-540					
Mercury, Total	94	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1546156-3 WG1546156-4 QC Sample: L2149178-09 Client ID: EP64_-3												
Aluminum, Total	398	196	716	**162**	Q	700	**155**	Q	75-125	2		20
Antimony, Total	ND	49	47.7	97		46.3	95		75-125	3		20
Arsenic, Total	0.372J	11.8	10.5	89		10.2	87		75-125	3		20
Barium, Total	2.42	196	201	101		193	98		75-125	4		20
Beryllium, Total	ND	4.9	4.64	94		4.45	92		75-125	4		20
Cadmium, Total	ND	5.2	5.00	96		4.84	94		75-125	3		20
Calcium, Total	227	981	1290	108		1210	101		75-125	6		20
Chromium, Total	1.84	19.6	21.2	99		20.3	95		75-125	4		20
Cobalt, Total	0.668J	49	46.9	96		45.3	93		75-125	3		20
Copper, Total	1.34	24.5	25.4	98		24.3	94		75-125	4		20
Iron, Total	820	98.1	1090	**275**	Q	1030	**216**	Q	75-125	6		20
Lead, Total	1.81J	52	50.8	98		49.0	95		75-125	4		20
Magnesium, Total	177	981	1140	98		1110	96		75-125	3		20
Manganese, Total	6.72	49	54.8	98		52.5	94		75-125	4		20
Nickel, Total	1.93J	49	46.0	94		44.6	92		75-125	3		20
Potassium, Total	98.8J	981	1070	109		1040	107		75-125	3		20
Selenium, Total	ND	11.8	9.62	82		9.23	79		75-125	4		20
Silver, Total	ND	29.4	28.9	98		27.8	95		75-125	4		20
Sodium, Total	85.3J	981	1100	112		1060	109		75-125	4		20
Thallium, Total	ND	11.8	10.3	87		9.96	85		75-125	3		20
Vanadium, Total	2.71	49	51.5	99		49.1	95		75-125	5		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1546156-3 WG1546156-4 QC Sample: L2149178-09 Client ID: EP64_-3									
Zinc, Total	59.4	49	111	105	111	106	75-125	0	20
Total Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1546157-3 WG1546157-4 QC Sample: L2149178-09 Client ID: EP64_-3									
Mercury, Total	ND	0.196	0.205	105	0.189	100	80-120	8	20

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2149178
Report Date: 09/17/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1546156-6 QC Sample: L2149178-09 Client ID: EP64_-3						
Aluminum, Total	398	446	mg/kg	12		20
Iron, Total	820	888	mg/kg	8		20

INORGANICS
&
MISCELLANEOUS

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-01
Client ID: EP46_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:00
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.9		%	0.100	NA	1	-	09/14/21 05:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	09/16/21 14:55	09/17/21 10:53	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	1.04	0.208	1	09/17/21 02:30	09/17/21 06:50	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-02
Client ID: EP47_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:05
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.8		%	0.100	NA	1	-	09/14/21 05:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.3	0.28	1	09/16/21 14:55	09/17/21 10:56	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	1.04	0.208	1	09/17/21 02:30	09/17/21 06:50	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-03
Client ID: EP48_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:10
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.6		%	0.100	NA	1	-	09/14/21 05:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.3	0.27	1	09/16/21 14:55	09/17/21 10:57	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	1.04	0.209	1	09/17/21 02:30	09/17/21 06:50	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-04
Client ID: EP54_-3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 09/13/21 10:15
Date Received: 09/13/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.9		%	0.100	NA	1	-	09/14/21 05:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.3	0.27	1	09/16/21 14:55	09/17/21 10:58	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	1.04	0.208	1	09/17/21 02:30	09/17/21 06:50	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-05
Client ID: EP55_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:20
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.3		%	0.100	NA	1	-	09/14/21 05:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	09/16/21 14:55	09/17/21 11:01	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	1.03	0.207	1	09/17/21 02:30	09/17/21 06:50	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-06
Client ID: EP56_-3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 09/13/21 10:25
Date Received: 09/13/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.1		%	0.100	NA	1	-	09/14/21 05:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	09/16/21 14:55	09/17/21 11:02	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	1.05	0.210	1	09/17/21 02:30	09/17/21 06:50	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-07
Client ID: EP62_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 10:30
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.2		%	0.100	NA	1	-	09/14/21 05:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.3	0.27	1	09/16/21 14:55	09/17/21 11:03	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	1.08	0.216	1	09/17/21 02:30	09/17/21 06:50	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-08
Client ID: EP63_-3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 09/13/21 10:35
Date Received: 09/13/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.9		%	0.100	NA	1	-	09/14/21 05:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	09/16/21 18:50	09/17/21 11:35	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	1.04	0.208	1	09/17/21 02:30	09/17/21 06:50	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-09
Client ID: EP64_-3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 09/13/21 10:40
Date Received: 09/13/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.5		%	0.100	NA	1	-	09/14/21 05:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	09/16/21 18:50	09/17/21 11:36	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	1.01	0.201	1	09/17/21 02:30	09/17/21 06:50	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-10
Client ID: EPSW13_-3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 09/13/21 11:00
Date Received: 09/13/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.7		%	0.100	NA	1	-	09/14/21 05:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.3	0.27	1	09/16/21 18:50	09/17/21 11:39	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	1.02	0.203	1	09/17/21 02:30	09/17/21 06:50	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

SAMPLE RESULTS

Lab ID: L2149178-11
Client ID: EPSW14_-3
Sample Location: BROOKLYN, NY

Date Collected: 09/13/21 11:10
Date Received: 09/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.4		%	0.100	NA	1	-	09/14/21 05:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	09/16/21 18:50	09/17/21 11:40	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	0.959	0.192	1	09/17/21 02:30	09/17/21 06:50	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149178
Report Date: 09/17/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-07 Batch: WG1547281-1										
Cyanide, Total	ND		mg/kg	0.87	0.18	1	09/16/21 14:55	09/17/21 10:46	1,9010C/9012B	CR
General Chemistry - Westborough Lab for sample(s): 08-11 Batch: WG1547323-1										
Cyanide, Total	ND		mg/kg	0.88	0.18	1	09/16/21 18:50	09/17/21 11:23	1,9010C/9012B	CR
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG1547441-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	09/17/21 02:30	09/17/21 06:50	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 07-11 Batch: WG1547486-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	09/17/21 02:30	09/17/21 06:50	1,7196A	JT

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG1547281-2 WG1547281-3								
Cyanide, Total	**60**	Q	**70**	Q	80-120	19		35
General Chemistry - Westborough Lab Associated sample(s): 08-11 Batch: WG1547323-2 WG1547323-3								
Cyanide, Total	**78**	Q	**65**	Q	80-120	23		35
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG1547441-2								
Chromium, Hexavalent	85		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 07-11 Batch: WG1547486-2								
Chromium, Hexavalent	85		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG1547281-4 WG1547281-5 QC Sample: L2149178-04 Client ID: EP54_-3												
Cyanide, Total	ND	12	12	95		13	100		75-125	8		35
General Chemistry - Westborough Lab Associated sample(s): 08-11 QC Batch ID: WG1547323-4 WG1547323-5 QC Sample: L2149178-09 Client ID: EP64_-3												
Cyanide, Total	ND	12	10	80		12	100		75-125	18		35
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1547441-4 QC Sample: L2149178-02 Client ID: EP47_-3												
Chromium, Hexavalent	ND	1730	1790	104		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 07-11 QC Batch ID: WG1547486-4 WG1547486-5 QC Sample: L2149178-09 Client ID: EP64_-3												
Chromium, Hexavalent	ND	1740	1720	99		1500	96		75-125	14		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149178

Report Date: 09/17/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1545939-1 QC Sample: L2149178-09 Client ID: EP64_-3						
Solids, Total	79.5	79.3	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1547441-6 QC Sample: L2149178-02 Client ID: EP47_-3						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 07-11 QC Batch ID: WG1547486-8 QC Sample: L2149178-09 Client ID: EP64_-3						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2149178-01A	Vial MeOH preserved	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2149178-01B	Vial water preserved	B	NA		2.6	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-01C	Vial water preserved	B	NA		2.6	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-01D	Plastic 120ml unpreserved	B	NA		2.6	Y	Absent		TS(7)
L2149178-01E	Plastic 2oz unpreserved for TS	C	NA		4.1	Y	Absent		TS(7)
L2149178-01F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TRICR-CALC(30),TL-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),SB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),MN-TI(180),HG-T(28),CA-TI(180),NA-TI(180),K-TI(180),CD-TI(180)
L2149178-01G	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		HEXCR-7196(30)
L2149178-01H	Plastic 8oz unpreserved	C	NA		4.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2149178-01J	Glass 500ml/16oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2149178-02A	Vial MeOH preserved	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2149178-02B	Vial water preserved	B	NA		2.6	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-02C	Vial water preserved	B	NA		2.6	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-02D	Plastic 120ml unpreserved	B	NA		2.6	Y	Absent		TS(7)
L2149178-02E	Plastic 2oz unpreserved for TS	C	NA		4.1	Y	Absent		TS(7)
L2149178-02F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),TRICR-CALC(30),TL-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MG-TI(180),MN-TI(180),HG-T(28),FE-TI(180),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2149178-02G	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		HEXCR-7196(30)
L2149178-02H	Plastic 8oz unpreserved	C	NA		4.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2149178-02J	Glass 500ml/16oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2149178-03A	Vial MeOH preserved	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2149178-03B	Vial water preserved	B	NA		2.6	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-03C	Vial water preserved	B	NA		2.6	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-03D	Plastic 120ml unpreserved	B	NA		2.6	Y	Absent		TS(7)
L2149178-03E	Plastic 2oz unpreserved for TS	C	NA		4.1	Y	Absent		TS(7)
L2149178-03F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),TRICR-CALC(30),AL-TI(180),CR-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),K-TI(180),CA-TI(180),NA-TI(180),CD-TI(180)
L2149178-03G	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		HEXCR-7196(30)
L2149178-03H	Plastic 8oz unpreserved	C	NA		4.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2149178-03J	Glass 500ml/16oz unpreserved	B	NA		2.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2149178-04A	Vial MeOH preserved	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2149178-04B	Vial water preserved	B	NA		2.6	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-04C	Vial water preserved	B	NA		2.6	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-04D	Plastic 120ml unpreserved	B	NA		2.6	Y	Absent		TS(7)
L2149178-04E	Plastic 2oz unpreserved for TS	C	NA		4.1	Y	Absent		TS(7)
L2149178-04F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TRICR-CALC(30),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CD-TI(180),NA-TI(180),K-TI(180),CA-TI(180)
L2149178-04G	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		HEXCR-7196(30)
L2149178-04H	Plastic 8oz unpreserved	C	NA		4.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2149178-04J	Glass 500ml/16oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2149178-05A	Vial MeOH preserved	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2149178-05B	Vial water preserved	B	NA		2.6	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-05C	Vial water preserved	B	NA		2.6	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-05D	Plastic 120ml unpreserved	B	NA		2.6	Y	Absent		TS(7)
L2149178-05E	Plastic 2oz unpreserved for TS	C	NA		4.1	Y	Absent		TS(7)
L2149178-05F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TRICR-CALC(30),TL-TI(180),AL-TI(180),NI-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2149178-05G	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		HEXCR-7196(30)
L2149178-05H	Plastic 8oz unpreserved	C	NA		4.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2149178-05J	Glass 500ml/16oz unpreserved	B	NA		2.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2149178-06A	Vial MeOH preserved	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2149178-06B	Vial water preserved	B	NA		2.6	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-06C	Vial water preserved	B	NA		2.6	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-06D	Plastic 120ml unpreserved	B	NA		2.6	Y	Absent		TS(7)
L2149178-06E	Plastic 2oz unpreserved for TS	C	NA		4.1	Y	Absent		TS(7)
L2149178-06F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),AL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2149178-06G	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		HEXCR-7196(30)
L2149178-06H	Plastic 8oz unpreserved	C	NA		4.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2149178-06J	Glass 500ml/16oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2149178-07A	Vial MeOH preserved	A	NA		4.3	Y	Absent		NYTCL-8260HLW(14)
L2149178-07B	Vial water preserved	A	NA		4.3	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-07C	Vial water preserved	A	NA		4.3	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-07D	Plastic 120ml unpreserved	A	NA		4.3	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2149178-07E	Plastic 2oz unpreserved for TS	C	NA		4.1	Y	Absent		TS(7)
L2149178-07F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.3	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),TRICR-CALC(30),NI-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2149178-07G	Glass 120ml/4oz unpreserved	A	NA		4.3	Y	Absent		HEXCR-7196(30)
L2149178-07H	Plastic 8oz unpreserved	C	NA		4.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2149178-07J	Glass 500ml/16oz unpreserved	A	NA		4.3	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2149178-08A	Vial MeOH preserved	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2149178-08B	Vial water preserved	B	NA		2.6	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-08C	Vial water preserved	B	NA		2.6	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-08D	Plastic 120ml unpreserved	B	NA		2.6	Y	Absent		TS(7)
L2149178-08E	Plastic 2oz unpreserved for TS	C	NA		4.1	Y	Absent		TS(7)
L2149178-08F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),TRICR-CALC(30),CR-TI(180),AL-TI(180),NI-TI(180),CU-TI(180),ZN-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),NA-TI(180),K-TI(180),CA-TI(180),CD-TI(180)
L2149178-08G	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		HEXCR-7196(30)
L2149178-08H	Plastic 8oz unpreserved	C	NA		4.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2149178-08J	Glass 500ml/16oz unpreserved	B	NA		2.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2149178-09A	Vial MeOH preserved	A	NA		4.3	Y	Absent		NYTCL-8260HLW(14)
L2149178-09A1	Vial MeOH preserved	A	NA		4.3	Y	Absent		NYTCL-8260HLW(14)
L2149178-09A2	Vial MeOH preserved	A	NA		4.3	Y	Absent		NYTCL-8260HLW(14)
L2149178-09B	Vial water preserved	A	NA		4.3	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-09B1	Vial water preserved	A	NA		4.3	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-09B2	Vial water preserved	A	NA		4.3	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-09C	Vial water preserved	A	NA		4.3	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-09C1	Vial water preserved	A	NA		4.3	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2149178-09C2	Vial water preserved	A	NA		4.3	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-09D	Plastic 120ml unpreserved	A	NA		4.3	Y	Absent		TS(7)
L2149178-09D1	Plastic 120ml unpreserved	A	NA		4.3	Y	Absent		TS(7)
L2149178-09D2	Plastic 120ml unpreserved	A	NA		4.3	Y	Absent		TS(7)
L2149178-09E	Plastic 2oz unpreserved for TS	C	NA		4.1	Y	Absent		TS(7)
L2149178-09E1	Plastic 2oz unpreserved for TS	C	NA		4.1	Y	Absent		TS(7)
L2149178-09E2	Plastic 2oz unpreserved for TS	C	NA		4.1	Y	Absent		TS(7)
L2149178-09F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.3	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),TL-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),PB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),K-TI(180),CD-TI(180),CA-TI(180),NA-TI(180)
L2149178-09F1	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.3	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),TL-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),PB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),K-TI(180),CD-TI(180),CA-TI(180),NA-TI(180)
L2149178-09F2	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.3	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),TL-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),PB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),K-TI(180),CD-TI(180),CA-TI(180),NA-TI(180)
L2149178-09G	Glass 120ml/4oz unpreserved	A	NA		4.3	Y	Absent		HEXCR-7196(30)
L2149178-09G1	Glass 120ml/4oz unpreserved	A	NA		4.3	Y	Absent		HEXCR-7196(30)
L2149178-09G2	Glass 120ml/4oz unpreserved	A	NA		4.3	Y	Absent		HEXCR-7196(30)
L2149178-09H	Plastic 8oz unpreserved	C	NA		4.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2149178-09H1	Plastic 8oz unpreserved	C	NA		4.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2149178-09H2	Plastic 8oz unpreserved	C	NA		4.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2149178-09J	Glass 500ml/16oz unpreserved	A	NA		4.3	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2149178-09J1	Glass 500ml/16oz unpreserved	A	NA		4.3	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2149178-09J2	Glass 500ml/16oz unpreserved	A	NA		4.3	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2149178-10A	Vial MeOH preserved	A	NA		4.3	Y	Absent		NYTCL-8260HLW(14)
L2149178-10B	Vial water preserved	A	NA		4.3	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-10C	Vial water preserved	A	NA		4.3	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-10D	Plastic 120ml unpreserved	A	NA		4.3	Y	Absent		TS(7)
L2149178-10E	Plastic 2oz unpreserved for TS	C	NA		4.1	Y	Absent		TS(7)
L2149178-10F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.3	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TRICR-CALC(30),TL-TI(180),CR-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2149178-10G	Glass 120ml/4oz unpreserved	A	NA		4.3	Y	Absent		HEXCR-7196(30)
L2149178-10H	Plastic 8oz unpreserved	C	NA		4.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2149178-10J	Glass 500ml/16oz unpreserved	A	NA		4.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2149178-11A	Vial MeOH preserved	A	NA		4.3	Y	Absent		NYTCL-8260HLW(14)
L2149178-11B	Vial water preserved	A	NA		4.3	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-11C	Vial water preserved	A	NA		4.3	Y	Absent	14-SEP-21 06:20	NYTCL-8260HLW(14)
L2149178-11D	Plastic 120ml unpreserved	A	NA		4.3	Y	Absent		TS(7)
L2149178-11E	Plastic 2oz unpreserved for TS	C	NA		4.1	Y	Absent		TS(7)
L2149178-11F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.3	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),TRICR-CALC(30),PB-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2149178-11G	Glass 120ml/4oz unpreserved	A	NA		4.3	Y	Absent		HEXCR-7196(30)
L2149178-11H	Plastic 8oz unpreserved	C	NA		4.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2149178-11J	Glass 500ml/16oz unpreserved	A	NA		4.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2149178-12A	Vial HCl preserved	A	NA		4.3	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149178
Report Date: 09/17/21

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2149178
Project Number:	170599501	**Report Date:**	09/17/21

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:	1607 SURF AVENUE	**Lab Number:**	L2149178
Project Number:	170599501	**Report Date:**	09/17/21

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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2149178
Project Number:	170599501	**Report Date:**	09/17/21

Data Qualifiers

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.

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2149178
Project Number:	170599501	**Report Date:**	09/17/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

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, SM4500Cl-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, **LACHAT 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.

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

NEW YORK CHAIN OF CUSTODY

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: 9/14/21

ALPHA Job #: L2149178

Client Information
Client: Langan
Address: 360 W 31st Street 8th Floor, NYC, NY
Phone: 212 479 5400
Fax: 212 479 5494
Email: JFriscia@langan.com

Project Information
Project Name: 1607 Surf Avenue
Project Location: Brooklyn, NY
Project #: 170599501
(Use Project name as Project #): ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
☒ Standard (5-day TAT) ☐ Rush (only if pre approved)
Due Date: * All analyses to be submitted on a 5-day TAT including PFAS
# of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ 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:
CC: Lesmail@langan.com; KSemon@Langan.com
Data management@langan.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs, SVOCs	TCL Pesticides	TAL Metals	TCN	Hex/T chromium	PFAAS	1,4-Dioxane	Herbs, PCBs	Sample Specific Comments	Total Bottle
49178-01	EP46_-3	09/13/21	1000	S	AR	X	X	X	X	X	X	X	X		
-02	EP47_-3		1005		AR	↓	↓	↓	↓	↓	↓	↓	↓		
-03	EP48_-3		1010		AR										
-04	EP54_-3		1015		AR										
-05	EP55_-3		1020		AR										
-06	EP56_-3		1025		AR										
-07	EP62_-3		1030		AR										
-08	EP63_-3		1035		AR										
-09	EP64_-3		1040		AR									RUN AS MS/MSD	
	~~EP64_-3~~				AR										

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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								
Preservative								

Relinquished By:	Date/Time	Received By:	Date/Time
Ali Reuch (Langan)	09/13/21 1730	GTJAC (AAL)	9/13/21 17:32
GTJAC	09/13/21 2040	AAL	9/13/21 22:30
AAL	9/14/21 0230		9/14/21 02:30

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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 9/14/21

ALPHA Job # L2149178

Client Information
Client: LANGAN
Address: 360 W 31st Street 8th Floor, NYC, NY
Phone: 2124795400
Fax: 2124795444
Email: JFriscia@langan.com

Project Information
Project Name: 1607 Surf Avenue
Project Location: Brooklyn, NY
Project # 170594501
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
★ Standard ☒ (5-day TAT)
Rush (only if pre approved) ☐
Due Date: ★ All Analyses to be submitted on 5-day TAT including PFAS
# of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

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:
CC: Lesmail@langan.com ; KSeman@Langan.com
Datamanagment@langan.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs, SVOCs	TCL Pesticides	TAL metals	TCN	Hex/Trivalent	PFAAS	1,4-Dioxane	Hybs, PCBs	Sample Specific Comments	Total Bottle
49178-10	EPSW13_-3	09/13/21	11:00	S	AR	X	X	X	X	X	X	X	X		
-11	EPSW14_-3	09/13/21	11:10	S	AR	X	X	X	X	X	X	X	X		
-12	TB01_091321	09/13/21	17:00	AQ	AR									Run for VOCs ONLY	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
AlRem (Langan)	09/13/21 1730	GSIAC (AAL)	9/13/21 17:32
GSIAC	09/13/21 20:40	AAL	9/13/21 22:30
AAL	9/14/21 02:30		9/14/21 02:30

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2149331
Client:	Langan Engineering & Environmental 300 Kimball Drive 4th Floor Parsippany, NJ 07054-2172
ATTN:	Jessica Friscia
Phone:	(973) 560-4488
Project Name:	1607 SURF AVENUE
Project Number:	170599501
Report Date:	09/20/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149331
Report Date: 09/20/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2149331-01	EP39_0.5	SOIL	BROOKLYN, NY	09/14/21 12:15	09/14/21
L2149331-02	EP32_0.5	SOIL	BROOKLYN, NY	09/14/21 12:20	09/14/21
L2149331-03	FB02_091421	WATER	BROOKLYN, NY	09/14/21 12:30	09/14/21

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2149331
Project Number:	170599501	**Report Date:**	09/20/21

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:	1607 SURF AVENUE	**Lab Number:**	L2149331
Project Number:	170599501	**Report Date:**	09/20/21

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: Alycia Mogayzel

Title: Technical Director/Representative Date: 09/20/21

ORGANICS

SEMIVOLATILES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149331
Report Date: 09/20/21

SAMPLE RESULTS

Lab ID: L2149331-01
Client ID: EP39_0.5
Sample Location: BROOKLYN, NY

Date Collected: 09/14/21 12:15
Date Received: 09/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/17/21 20:29
Analyst: HT
Percent Solids: 88%

Extraction Method: ALPHA 23528
Extraction Date: 09/15/21 13:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.519	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.519	0.048	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.260	0.041	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.519	0.055	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.260	0.047	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.260	0.063	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.260	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.519	0.186	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.519	0.142	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.260	0.078	1
Perfluorooctanesulfonic Acid (PFOS)	0.156	J	ng/g	0.260	0.135	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.260	0.070	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.519	0.298	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.519	0.209	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.519	0.049	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.519	0.159	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.519	0.102	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.519	0.088	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.519	0.073	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.519	0.212	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.519	0.056	1
PFOA/PFOS, Total	0.156	J	ng/g	0.260	0.044	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149331

Project Number: 170599501 **Report Date:** 09/20/21

SAMPLE RESULTS

Lab ID: L2149331-01 Date Collected: 09/14/21 12:15

Client ID: EP39_0.5 Date Received: 09/14/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	92		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	87		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	96		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	91		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	85		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	97		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	81		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	74		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	95		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	101		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	70		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	91		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	59		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149331
Report Date: 09/20/21

SAMPLE RESULTS

Lab ID: L2149331-02
Client ID: EP32_0.5
Sample Location: BROOKLYN, NY

Date Collected: 09/14/21 12:20
Date Received: 09/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/17/21 21:02
Analyst: HT
Percent Solids: 89%

Extraction Method: ALPHA 23528
Extraction Date: 09/15/21 13:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.536	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.536	0.049	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.268	0.042	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.536	0.056	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.268	0.048	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.268	0.065	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.268	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.536	0.192	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.536	0.146	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.268	0.081	1
Perfluorooctanesulfonic Acid (PFOS)	0.336		ng/g	0.268	0.139	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.268	0.072	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.536	0.308	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.536	0.216	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.536	0.050	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.536	0.164	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.536	0.105	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.536	0.091	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.536	0.075	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.536	0.219	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.536	0.058	1
PFOA/PFOS, Total	0.336		ng/g	0.268	0.045	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149331

Project Number: 170599501 **Report Date:** 09/20/21

SAMPLE RESULTS

Lab ID: L2149331-02 Date Collected: 09/14/21 12:20

Client ID: EP32_0.5 Date Received: 09/14/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	95		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	107		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	103		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	101		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	97		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	100		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	93		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	107		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	97		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	84		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	110		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	78		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	101		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	69		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149331
Report Date: 09/20/21

SAMPLE RESULTS

Lab ID: L2149331-03
Client ID: FB02_091421
Sample Location: BROOKLYN, NY

Date Collected: 09/14/21 12:30
Date Received: 09/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/18/21 17:59
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 09/16/21 10:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.75	0.357	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.75	0.346	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.75	0.208	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.75	0.287	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.75	0.197	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.75	0.329	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.75	0.206	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.75	1.16	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.75	0.601	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.75	0.273	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.75	0.441	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.75	0.266	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.75	1.06	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.75	0.566	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.75	0.227	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.75	0.857	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.75	0.507	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.75	0.703	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.75	0.325	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.75	0.286	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.75	0.217	1
PFOA/PFOS, Total	ND		ng/l	1.75	0.206	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2149331

Project Number: 170599501 **Report Date:** 09/20/21

SAMPLE RESULTS

Lab ID: L2149331-03 Date Collected: 09/14/21 12:30

Client ID: FB02_091421 Date Received: 09/14/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	112		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	107		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	103		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	100		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	99		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	100		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	100		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	104		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	101		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	84		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	50		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	81		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	85		22-136

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149331
Report Date: 09/20/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/17/21 17:43
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 09/15/21 13:24

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-02 Batch: WG1546708-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.150	J	ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149331
Report Date: 09/20/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/17/21 17:43
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 09/15/21 13:24

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-02 Batch: WG1546708-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	93		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	88		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	92		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	97		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	91		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	89		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	87		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	90		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	81		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	97		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	57		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	79		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	91		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	69		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149331
Report Date: 09/20/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/18/21 14:06
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 09/16/21 10:35

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 03 Batch: WG1547038-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	1.24	J	ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	1.36	J	ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149331
Report Date: 09/20/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/18/21 14:06
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 09/16/21 10:35

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 03 Batch: WG1547038-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	114		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	100		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	105		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	103		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	101		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	96		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	94		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	96		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	88		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	87		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	98		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	48		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	90		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	89		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	81		22-136

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149331
Report Date: 09/20/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02 Batch: WG1546708-2								
Perfluorobutanoic Acid (PFBA)	96		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	94		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	96		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	96		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	94		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	96		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	100		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	105		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	94		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	100		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	104		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	95		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	105		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	99		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	103		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	94		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	93		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	98		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	94		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	114		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	102		-		69-133	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149331

Report Date: 09/20/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02 Batch: WG1546708-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	97				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	92				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	96				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	105				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	102				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	99				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	97				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	91				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	93				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	104				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	97				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	88				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	36				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	89				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	104				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	74				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149331

Report Date: 09/20/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03 Batch: WG1547038-2								
Perfluorobutanoic Acid (PFBA)	104		-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	101		-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	104		-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	104		-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	104		-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	105		-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	111		-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	115		-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	106		-		61-179	-		30
Perfluorononanoic Acid (PFNA)	105		-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	111		-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	108		-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	107		-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	100		-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	109		-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	110		-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	100		-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	107		-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	99		-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	116		-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	106		-		59-182	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149331

Report Date: 09/20/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03 Batch: WG1547038-2

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	97				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	108				62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	96				70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	101				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	97				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97				71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89				62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	97				14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	91				59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	96				69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91				62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	90				10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	87				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	92				55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	43				10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	83				27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	91				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	80				22-136

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149331

Report Date: 09/20/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1546708-3 QC Sample: L2149331-01 Client ID: EP39_0.5												
Perfluorobutanoic Acid (PFBA)	ND	5.51	5.26	96		-	-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	ND	5.51	5.15	94		-	-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.89	4.62	94		-	-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	ND	5.51	5.20	94		-	-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.51	5.16	94		-	-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	5.03	4.63	92		-	-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	ND	5.51	5.47	99		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.24	5.58	106		-	-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.24	4.93	94		-	-		70-132	-		30
Perfluorononanoic Acid (PFNA)	ND	5.51	5.36	97		-	-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	0.156J	5.11	5.41	103		-	-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	ND	5.51	5.43	99		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.29	6.18	117		-	-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.51	5.31	96		-	-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.51	5.54	101		-	-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.31	5.03	95		-	-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	ND	5.51	4.99	91		-	-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.51	5.19	94		-	-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	ND	5.51	5.49	100		-	-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	ND	5.51	6.40	116		-	-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.51	5.34	97		-	-		69-133	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149331

Report Date: 09/20/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1546708-3 QC Sample: L2149331-01 Client ID: EP39_0.5												

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	98				19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	97				20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	80				34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	85				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101				61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	102				75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	108				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	104				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	101				78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	71				24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	100				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	93				58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	117				10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103				79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98				75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95				72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97				74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149331

Report Date: 09/20/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1547038-3 QC Sample: L2148947-01 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	43.2	37.8	80.8	100		-	-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	49.6	37.8	86.4	97		-	-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	8.95	33.6	43.5	103		-	-		65-157	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	35.4	41.8	118		-	-		37-219	-		30
Perfluorohexanoic Acid (PFHxA)	48.8	37.8	87.0	101		-	-		69-168	-		30
Perfluoropentanesulfonic Acid (PFPeS)	2.92	35.5	41.6	109		-	-		52-156	-		30
Perfluoroheptanoic Acid (PFHpA)	38.1	37.8	76.2	101		-	-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	13.4	34.5	49.4	104		-	-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	391	37.8	427	95		-	-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	36	39.3	109		-	-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	3.07	36	38.3	98		-	-		61-179	-		30
Perfluorononanoic Acid (PFNA)	15.0	37.8	53.5	102		-	-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	125	35.1	155	86		-	-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	3.61	37.8	42.3	102		-	-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	36.3	38.6	106		-	-		56-173	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	36.3	33.8	93		-	-		48-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	37.8	38.5F	102		-	-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	37.8	37.4	99		-	-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	36.4	33.3	91		-	-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	ND	37.8	35.3	93		-	-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	37.8	35.6	94		-	-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	ND	37.8	36.3	96		-	-		67-153	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2149331
Report Date: 09/20/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1547038-3 QC Sample: L2148947-01 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	37.8	42.7	113		-	-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	37.8	35.3	93		-	-		59-182	-		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	124				10-162
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	**195**	Q			12-142
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**167**	Q			14-147
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	74				27-126
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	70				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	84				55-137
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89				62-124
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	85				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	96				71-134
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	77				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	73				22-136
Perfluoro[13C4]Butanoic Acid (MPFBA)	101				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	89				62-163
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	28				10-112
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100				69-131
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89				62-129
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99				59-139
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	92				70-131

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149331
Report Date: 09/20/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1546708-4 QC Sample: L2149331-02 Client ID: EP32_0.5						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/g	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/g	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/g	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/g	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/g	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/g	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/g	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/g	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonic Acid (PFOS)	0.336	0.343	ng/g	2		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/g	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/g	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/g	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/g	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/g	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/g	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/g	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149331
Report Date: 09/20/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1546708-4 QC Sample: L2149331-02 Client ID: EP32_0.5						
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/g	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100		99		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	95		93		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		96		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	107		107		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	103		104		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	101		99		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	97		96		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	100		103		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	93		95		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	107		103		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101		101		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	97		99		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	84		77		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		102		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	110		108		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	78		68		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	101		96		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	69		65		24-159

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149331
Report Date: 09/20/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1547038-4 QC Sample: L2148947-02 Client ID: DUP Sample						
Perfluorobutanoic Acid (PFBA)	8.86	8.75	ng/l	1		30
Perfluoropentanoic Acid (PFPeA)	25.4	25.1	ng/l	1		30
Perfluorobutanesulfonic Acid (PFBS)	3.63	3.67	ng/l	1		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	23.5	22.1	ng/l	6		30
Perfluoropentanesulfonic Acid (PFPeS)	2.29	2.06	ng/l	11		30
Perfluoroheptanoic Acid (PFHpA)	15.3	15.6	ng/l	2		30
Perfluorohexanesulfonic Acid (PFHxS)	15.1	15.1	ng/l	0		30
Perfluorooctanoic Acid (PFOA)	433	422	ng/l	3		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/l	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	9.38	9.73	ng/l	4		30
Perfluorononanoic Acid (PFNA)	20.0	19.6	ng/l	2		30
Perfluorooctanesulfonic Acid (PFOS)	613	647	ng/l	5		30
Perfluorodecanoic Acid (PFDA)	1.71J	1.78J	ng/l	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/l	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	8.59F	8.65	ng/l	1		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonamide (FOSA)	5.20	4.96F	ng/l	5		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149331
Report Date: 09/20/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1547038-4 QC Sample: L2148947-02 Client ID: DUP Sample						
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	38.6	45.8	ng/l	17		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/l	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	98		95		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	78		78		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	105		102		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	**249**	Q	**231**	Q	12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	81		79		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	87		84		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	107		105		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86		85		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**223**	Q	**217**	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	96		95		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		93		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	87		84		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**196**	Q	**182**	Q	10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	94		91		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	92		91		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	28		30		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	99		90		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	91		86		48-131

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149331
Report Date: 09/20/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1547038-4 QC Sample: L2148947-02 Client ID: DUP Sample						

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	78		74		22-136

INORGANICS
&
MISCELLANEOUS

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149331
Report Date: 09/20/21

SAMPLE RESULTS

Lab ID: L2149331-01
Client ID: EP39_0.5
Sample Location: BROOKLYN, NY

Date Collected: 09/14/21 12:15
Date Received: 09/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	87.7		%	0.100	0.100	1	-	09/17/21 11:42	121,2540G	NB

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149331
Report Date: 09/20/21

SAMPLE RESULTS

Lab ID: L2149331-02
Client ID: EP32_0.5
Sample Location: BROOKLYN, NY

Date Collected: 09/14/21 12:20
Date Received: 09/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	89.2		%	0.100	0.100	1	-	09/17/21 11:42	121,2540G	NB

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2149331

Report Date: 09/20/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1547663-1 QC Sample: L2149313-03 Client ID: DUP Sample						
Solids, Total	77.5	80.2	%	3		10

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149331
Report Date: 09/20/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2149331-01A	Plastic 8oz unpreserved	A	NA		2.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L2149331-01B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		A2-TS(7)
L2149331-02A	Plastic 8oz unpreserved	A	NA		2.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L2149331-02B	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		A2-TS(7)
L2149331-03A	Plastic 250ml unpreserved	A	NA		2.3	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2149331
Report Date: 09/20/21

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2149331
Project Number:	170599501	**Report Date:**	09/20/21

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:	1607 SURF AVENUE	**Lab Number:**	L2149331
Project Number:	170599501	**Report Date:**	09/20/21

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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2149331
Project Number:	170599501	**Report Date:**	09/20/21

Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2149331
Project Number:	170599501	**Report Date:**	09/20/21

REFERENCES

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

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, SM4500Cl-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, **LACHAT 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

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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 1

Date Rec'd in Lab: 9/15/21

ALPHA Job # L2149331

Client Information

Client: LANGAN
Address: 360 W31st street 8th Floor, NYC, NY
Phone: 2124795400
Fax: 2124795444
Email: JFrisoia@langan.com

Project Information

Project Name: 1607 Surf Avenue
Project Location: Brooklyn, NY
Project # 170599501
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date: All Analyses to be submitted on a 5-day TAT including PFAS
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☒ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ 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:
CC: Lesmail@langan.com; KSeman@langan.com; Datamanagment@langan.com

Please specify Metals or TAL.

ANALYSIS

PFAS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PFAS	Sample Specific Comments
49331 -01	EP39_0.5	09/14/21	12:15	S	AR	X	
-02	EP32_0.5	09/14/21	12:20	S	AR	X	
-03	FB02_091421	09/14/21	12:30	AQ	AR	X	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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															
Preservative															

Relinquished By:	Date/Time	Received By:	Date/Time
Alt Reach (Langan)	09/14/21 1345		9/14/21 13:45
	9/14/21 15:58		9/14/21 20:30
	9/15/21 00:20		9/15/21 00:20
	9/15/21 4100		9/15/21 0415
T. Hall	9/15/21 0530	Kim L. Bailey	9/15/21 0530

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2153255
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Kimberly Semon
Phone:	(212) 479-5486
Project Name:	1607 SURF AVENUE
Project Number:	170599501
Report Date:	10/06/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2153255-01	EP21_ -3	SOIL	BROOKLYN, NY	09/30/21 12:00	09/30/21
L2153255-02	EP22_ -3	SOIL	BROOKLYN, NY	09/30/21 12:10	09/30/21
L2153255-03	EP28_ -3	SOIL	BROOKLYN, NY	09/30/21 12:20	09/30/21
L2153255-04	EP29_ -3	SOIL	BROOKLYN, NY	09/30/21 12:30	09/30/21
L2153255-05	EP30_ -3	SOIL	BROOKLYN, NY	09/30/21 12:40	09/30/21
L2153255-06	EP37_ -3	SOIL	BROOKLYN, NY	09/30/21 12:50	09/30/21
L2153255-07	EP38_ -3	SOIL	BROOKLYN, NY	09/30/21 13:00	09/30/21
L2153255-08	EPSW11_ -3	SOIL	BROOKLYN, NY	09/30/21 13:10	09/30/21
L2153255-09	EPSW12_ -3	SOIL	BROOKLYN, NY	09/30/21 13:20	09/30/21

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2153255
Project Number:	170599501	**Report Date:**	10/06/21

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:	1607 SURF AVENUE	**Lab Number:**	L2153255
Project Number:	170599501	**Report Date:**	10/06/21

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.

Semivolatile Organics

The WG1553534-2/-3 LCS/LCSD recoveries, associated with L2153255-01 through -09, are below the acceptance criteria for hexachlorocyclopentadiene (7%/7%), 2,4-dinitrophenol (LCS 0%), and 4,6-dinitro-o-cresol (LCS 6%); however, they have been identified as "difficult" analytes. The results of the associated samples are reported.

The WG1553534-4/-5 MS/MSD recoveries, performed on L2153255-03, are below the acceptance criteria for hexachlorocyclopentadiene (0%/0%), 2,4-dinitrophenol (0%/0%), 4,6-dinitro-o-cresol (MS 0%), and benzoic acid (0%/0%) due to the concentrations of these compounds in the MS/MSD falling below the reported detection limits.

Perfluorinated Alkyl Acids by Isotope Dilution

L2153255-04 and -08: The MeOH fraction of the extraction is reported for Perfluorooctanesulfonamide (FOSA) due to better extraction efficiency of the M8FOSA Surrogate (Extracted Internal Standard).

The Extracted Internal Standard recovery for the WG1553947-1 Method Blank, associated with L2153255-01 through -09, is below the acceptance criteria for perfluoro[13c8]octanesulfonamide (m8fosa) (less than 10%); however, all associated samples are non-detect for perfluorooctanesulfonamide (fosa).

WG1553947-2: The Extracted Internal Standard recovery is below the acceptance criteria for perfluoro[13c8]octanesulfonamide (m8fosa) (less than 10%); however, all associated target analytes are within criteria.

Pesticides

L2153255-08: The internal standard (IS) response for 1-bromo-2-nitrobenzene (1335%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. The

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2153255
Project Number:	170599501	**Report Date:**	10/06/21

Case Narrative (continued)

surrogate recovery is outside the method acceptance criteria for decachlorobiphenyl (3%) due to interference with the Internal Standard.

Total Metals

L2153255-01 through -09: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1553535-3/-4 MSD recoveries, performed on L2153255-03, are outside the acceptance criteria for aluminum (149%/166%), calcium (MSD 567%), and magnesium (MSD 361%). A post digestion spike was performed and was within acceptance criteria. The MS/MSD RPDs for calcium (107%) and magnesium (98%) are above the acceptance criteria.

The WG1553535-3/-4 MS/MSD recoveries for iron (225%/393%), performed on L2153255-03, do not apply because the sample concentration is greater than four times the spike amount added.

Cyanide, Total

The WG1554165-2/-3 LCS/LCSD recoveries for cyanide, total (74%/76%), associated with L2153255-01, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

Hexavalent Chromium

The WG1553999-8 post-digestion spike recovery was outside the acceptance criteria. The MS/MSD recoveries are within acceptance criteria; therefore, no further action was taken.

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: Kelly Stenstrom

Title: Technical Director/Representative Date: 10/06/21

ORGANICS

VOLATILES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-01
Client ID: EP21_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:00
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/06/21 11:38
Analyst: JC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.14	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	ND		ug/kg	0.58	0.23	1
Chlorobenzene	ND		ug/kg	0.58	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.81	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	0.19	1
Bromodichloromethane	ND		ug/kg	0.58	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.58	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.58	0.18	1
Bromoform	ND		ug/kg	4.7	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	0.19	1
Benzene	ND		ug/kg	0.58	0.19	1
Toluene	ND		ug/kg	1.2	0.63	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	4.7	1.1	1
Bromomethane	ND		ug/kg	2.3	0.68	1
Vinyl chloride	ND		ug/kg	1.2	0.39	1
Chloroethane	ND		ug/kg	2.3	0.53	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-01 Date Collected: 09/30/21 12:00

Client ID: EP21_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.65	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.6	1
Carbon disulfide	ND		ug/kg	12	5.3	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.58	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.19	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.7	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.7	0.76	1
Acrylonitrile	ND		ug/kg	4.7	1.3	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-01 Date Collected: 09/30/21 12:00

Client ID: EP21_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.39	1
1,4-Dioxane	ND		ug/kg	93	41.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.21	1
p-Ethyltoluene	ND		ug/kg	2.3	0.45	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	110		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-02
Client ID: EP22_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:10
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/06/21 09:13
Analyst: MV
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.19	1
Benzene	ND		ug/kg	0.56	0.19	1
Toluene	ND		ug/kg	1.1	0.61	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.2	0.65	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.2	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-02 Date Collected: 09/30/21 12:10

Client ID: EP22_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.63	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.5	0.73	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-02 Date Collected: 09/30/21 12:10

Client ID: EP22_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.38	1
1,4-Dioxane	ND		ug/kg	90	39.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.43	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	117		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-03
Client ID: EP28_ -3
Sample Location: BROOKLYN, NY
Date Collected: 09/30/21 12:20
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/06/21 09:03
Analyst: MV
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.14	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	ND		ug/kg	0.58	0.23	1
Chlorobenzene	ND		ug/kg	0.58	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.81	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	0.19	1
Bromodichloromethane	ND		ug/kg	0.58	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.58	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.58	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	0.19	1
Benzene	ND		ug/kg	0.58	0.19	1
Toluene	ND		ug/kg	1.2	0.63	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.67	1
Vinyl chloride	ND		ug/kg	1.2	0.39	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-03 Date Collected: 09/30/21 12:20

Client ID: EP28_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.65	1
o-Xylene	0.77	J	ug/kg	1.2	0.34	1
Xylenes, Total	0.77	J	ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.6	1
Carbon disulfide	ND		ug/kg	12	5.3	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.58	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.19	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.6	0.75	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-03 Date Collected: 09/30/21 12:20

Client ID: EP28_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.39	1
1,4-Dioxane	ND		ug/kg	93	41.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	0.82	J	ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	106		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-04
Client ID: EP29_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:30
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/06/21 09:34
Analyst: MV
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.97	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-04 Date Collected: 09/30/21 12:30

Client ID: EP29_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.2	0.68	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-04 Date Collected: 09/30/21 12:30

Client ID: EP29_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	84	37.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.18	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	119		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-05
Client ID: EP30_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:40
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/06/21 09:55
Analyst: MV
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.96	1
Bromomethane	ND		ug/kg	2.1	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-05 Date Collected: 09/30/21 12:40

Client ID: EP30_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.95	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.67	1
Acrylonitrile	ND		ug/kg	4.1	1.2	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-05 Date Collected: 09/30/21 12:40

Client ID: EP30_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.34	1
1,4-Dioxane	ND		ug/kg	83	36.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.18	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	118		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-06
Client ID: EP37_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:50
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/06/21 10:15
Analyst: MV
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.9	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.59	0.23	1
Chlorobenzene	ND		ug/kg	0.59	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.82	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.59	0.20	1
Bromodichloromethane	ND		ug/kg	0.59	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.59	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.59	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.59	0.19	1
Bromoform	ND		ug/kg	4.7	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.59	0.20	1
Benzene	ND		ug/kg	0.59	0.20	1
Toluene	ND		ug/kg	1.2	0.64	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.7	1.1	1
Bromomethane	ND		ug/kg	2.4	0.69	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.53	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-06 Date Collected: 09/30/21 12:50

Client ID: EP37_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.59	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.66	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.7	1
Carbon disulfide	ND		ug/kg	12	5.4	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.59	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.22	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.7	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.7	0.77	1
Acrylonitrile	ND		ug/kg	4.7	1.4	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-06 Date Collected: 09/30/21 12:50

Client ID: EP37_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.39	1
1,4-Dioxane	ND		ug/kg	94	41.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.45	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.22	1
Ethyl ether	ND		ug/kg	2.4	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	122		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-07
Client ID: EP38_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 13:00
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/06/21 11:59
Analyst: JC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.8	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.36	1
Tetrachloroethene	ND		ug/kg	0.68	0.27	1
Chlorobenzene	ND		ug/kg	0.68	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.95	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.68	0.23	1
Bromodichloromethane	ND		ug/kg	0.68	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.68	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.68	0.22	1
1,1-Dichloropropene	ND		ug/kg	0.68	0.22	1
Bromoform	ND		ug/kg	5.4	0.34	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.68	0.23	1
Benzene	ND		ug/kg	0.68	0.23	1
Toluene	ND		ug/kg	1.4	0.74	1
Ethylbenzene	ND		ug/kg	1.4	0.19	1
Chloromethane	ND		ug/kg	5.4	1.3	1
Bromomethane	ND		ug/kg	2.7	0.79	1
Vinyl chloride	ND		ug/kg	1.4	0.46	1
Chloroethane	ND		ug/kg	2.7	0.62	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.19	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-07 Date Collected: 09/30/21 13:00

Client ID: EP38_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.68	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.76	1
o-Xylene	ND		ug/kg	1.4	0.40	1
Xylenes, Total	ND		ug/kg	1.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.19	1
Dibromomethane	ND		ug/kg	2.7	0.32	1
Styrene	ND		ug/kg	1.4	0.27	1
Dichlorodifluoromethane	ND		ug/kg	14	1.2	1
Acetone	12	J	ug/kg	14	6.6	1
Carbon disulfide	ND		ug/kg	14	6.2	1
2-Butanone	ND		ug/kg	14	3.0	1
Vinyl acetate	ND		ug/kg	14	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	0.17	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.38	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.68	0.18	1
Bromobenzene	ND		ug/kg	2.7	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.7	0.16	1
o-Chlorotoluene	ND		ug/kg	2.7	0.26	1
p-Chlorotoluene	ND		ug/kg	2.7	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.23	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.4	0.89	1
Acrylonitrile	ND		ug/kg	5.4	1.6	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-07 Date Collected: 09/30/21 13:00

Client ID: EP38_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.46	1
1,4-Dioxane	ND		ug/kg	110	48.	1
p-Diethylbenzene	ND		ug/kg	2.7	0.24	1
p-Ethyltoluene	ND		ug/kg	2.7	0.52	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.7	0.26	1
Ethyl ether	ND		ug/kg	2.7	0.46	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	115		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-08
Client ID: EPSW11_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 13:10
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/06/21 10:57
Analyst: MV
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.0	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.60	0.24	1
Chlorobenzene	ND		ug/kg	0.60	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.84	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	0.20	1
Bromodichloromethane	ND		ug/kg	0.60	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.60	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.60	0.19	1
Bromoform	ND		ug/kg	4.8	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	0.20	1
Benzene	ND		ug/kg	0.60	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.70	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-08 Date Collected: 09/30/21 13:10

Client ID: EPSW11_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.60	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.60	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	0.19	J	ug/kg	1.2	0.13	1
Naphthalene	0.97	J	ug/kg	4.8	0.79	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-08 Date Collected: 09/30/21 13:10

Client ID: EPSW11_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	97	42.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.46	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	117		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-09
Client ID: EPSW12_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 13:20
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/06/21 08:38
Analyst: MV
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.98	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.98	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.98	0.12	1
Dibromochloromethane	ND		ug/kg	0.98	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.98	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.98	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.98	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.49	0.16	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.98	0.53	1
Ethylbenzene	ND		ug/kg	0.98	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	2.0	0.57	1
Vinyl chloride	ND		ug/kg	0.98	0.33	1
Chloroethane	ND		ug/kg	2.0	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.98	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-09 Date Collected: 09/30/21 13:20

Client ID: EPSW12_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.55	1
o-Xylene	0.70	J	ug/kg	0.98	0.28	1
Xylenes, Total	0.70	J	ug/kg	0.98	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.98	0.13	1
Dibromomethane	ND		ug/kg	2.0	0.23	1
Styrene	ND		ug/kg	0.98	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.8	0.90	1
Acetone	ND		ug/kg	9.8	4.7	1
Carbon disulfide	ND		ug/kg	9.8	4.4	1
2-Butanone	ND		ug/kg	9.8	2.2	1
Vinyl acetate	ND		ug/kg	9.8	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.8	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.12	1
2-Hexanone	ND		ug/kg	9.8	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.98	0.27	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	0.98	0.16	1
sec-Butylbenzene	ND		ug/kg	0.98	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.98	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.98	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.98	0.11	1
Naphthalene	1.7	J	ug/kg	3.9	0.64	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-09 Date Collected: 09/30/21 13:20

Client ID: EPSW12_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.98	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	0.44	J	ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	78	34.	1
p-Diethylbenzene	0.31	J	ug/kg	2.0	0.17	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	0.82	J	ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	106		70-130

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/06/21 06:58
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03,09 Batch: WG1555109-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/06/21 06:58
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03,09 Batch: WG1555109-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	0.66	J	ug/kg	1.0	0.29
Xylenes, Total	0.66	J	ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	0.68	J	ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/06/21 06:58
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03,09 Batch: WG1555109-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	0.71	J	ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	102		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/06/21 07:10
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02,04-08 Batch: WG1555173-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/06/21 07:10
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02,04-08 Batch: WG1555173-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/06/21 07:10
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02,04-08 Batch: WG1555173-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	116		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03,09 Batch: WG1555109-3 WG1555109-4								
Methylene chloride	88		87		70-130	1		30
1,1-Dichloroethane	95		92		70-130	3		30
Chloroform	90		88		70-130	2		30
Carbon tetrachloride	110		105		70-130	5		30
1,2-Dichloropropane	90		90		70-130	0		30
Dibromochloromethane	105		104		70-130	1		30
1,1,2-Trichloroethane	90		90		70-130	0		30
Tetrachloroethene	108		104		70-130	4		30
Chlorobenzene	95		93		70-130	2		30
Trichlorofluoromethane	89		84		70-139	6		30
1,2-Dichloroethane	93		93		70-130	0		30
1,1,1-Trichloroethane	110		108		70-130	2		30
Bromodichloromethane	98		97		70-130	1		30
trans-1,3-Dichloropropene	101		101		70-130	0		30
cis-1,3-Dichloropropene	104		105		70-130	1		30
1,1-Dichloropropene	107		104		70-130	3		30
Bromoform	101		101		70-130	0		30
1,1,2,2-Tetrachloroethane	88		91		70-130	3		30
Benzene	95		93		70-130	2		30
Toluene	89		88		70-130	1		30
Ethylbenzene	99		97		70-130	2		30
Chloromethane	115		111		52-130	4		30
Bromomethane	69		66		57-147	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03,09 Batch: WG1555109-3 WG1555109-4								
Vinyl chloride	92		89		67-130	3		30
Chloroethane	75		72		50-151	4		30
1,1-Dichloroethene	109		106		65-135	3		30
trans-1,2-Dichloroethene	102		99		70-130	3		30
Trichloroethene	99		96		70-130	3		30
1,2-Dichlorobenzene	99		100		70-130	1		30
1,3-Dichlorobenzene	99		98		70-130	1		30
1,4-Dichlorobenzene	97		97		70-130	0		30
Methyl tert butyl ether	100		100		66-130	0		30
p/m-Xylene	102		99		70-130	3		30
o-Xylene	89		87		70-130	2		30
cis-1,2-Dichloroethene	97		95		70-130	2		30
Dibromomethane	93		92		70-130	1		30
Styrene	89		88		70-130	1		30
Dichlorodifluoromethane	136		130		30-146	5		30
Acetone	93		93		54-140	0		30
Carbon disulfide	89		87		59-130	2		30
2-Butanone	**133**	Q	130		70-130	2		30
Vinyl acetate	96		98		70-130	2		30
4-Methyl-2-pentanone	94		95		70-130	1		30
1,2,3-Trichloropropane	89		90		68-130	1		30
2-Hexanone	119		116		70-130	3		30
Bromochloromethane	97		98		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03,09 Batch: WG1555109-3 WG1555109-4								
2,2-Dichloropropane	110		108		70-130	2		30
1,2-Dibromoethane	101		103		70-130	2		30
1,3-Dichloropropane	92		92		69-130	0		30
1,1,1,2-Tetrachloroethane	102		100		70-130	2		30
Bromobenzene	102		102		70-130	0		30
n-Butylbenzene	102		99		70-130	3		30
sec-Butylbenzene	103		101		70-130	2		30
tert-Butylbenzene	107		105		70-130	2		30
o-Chlorotoluene	111		110		70-130	1		30
p-Chlorotoluene	101		100		70-130	1		30
1,2-Dibromo-3-chloropropane	104		110		68-130	6		30
Hexachlorobutadiene	112		109		67-130	3		30
Isopropylbenzene	104		102		70-130	2		30
p-Isopropyltoluene	111		108		70-130	3		30
Naphthalene	104		106		70-130	2		30
Acrylonitrile	82		84		70-130	2		30
n-Propylbenzene	99		98		70-130	1		30
1,2,3-Trichlorobenzene	112		112		70-130	0		30
1,2,4-Trichlorobenzene	114		112		70-130	2		30
1,3,5-Trimethylbenzene	105		104		70-130	1		30
1,2,4-Trimethylbenzene	107		106		70-130	1		30
1,4-Dioxane	95		98		65-136	3		30
p-Diethylbenzene	110		109		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153255

Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03,09 Batch: WG1555109-3 WG1555109-4								
p-Ethyltoluene	104		103		70-130	1		30
1,2,4,5-Tetramethylbenzene	100		98		70-130	2		30
Ethyl ether	94		94		67-130	0		30
trans-1,4-Dichloro-2-butene	84		83		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		101		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	106		106		70-130
Dibromofluoromethane	105		106		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02,04-08 Batch: WG1555173-3 WG1555173-4								
Methylene chloride	88		88		70-130	0		30
1,1-Dichloroethane	92		92		70-130	0		30
Chloroform	90		92		70-130	2		30
Carbon tetrachloride	88		89		70-130	1		30
1,2-Dichloropropane	88		89		70-130	1		30
Dibromochloromethane	86		88		70-130	2		30
1,1,2-Trichloroethane	88		89		70-130	1		30
Tetrachloroethene	89		90		70-130	1		30
Chlorobenzene	90		90		70-130	0		30
Trichlorofluoromethane	88		89		70-139	1		30
1,2-Dichloroethane	86		87		70-130	1		30
1,1,1-Trichloroethane	94		95		70-130	1		30
Bromodichloromethane	85		88		70-130	3		30
trans-1,3-Dichloropropene	97		96		70-130	1		30
cis-1,3-Dichloropropene	91		94		70-130	3		30
1,1-Dichloropropene	92		95		70-130	3		30
Bromoform	80		84		70-130	5		30
1,1,2,2-Tetrachloroethane	100		105		70-130	5		30
Benzene	88		90		70-130	2		30
Toluene	91		91		70-130	0		30
Ethylbenzene	95		96		70-130	1		30
Chloromethane	92		93		52-130	1		30
Bromomethane	70		70		57-147	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02,04-08 Batch: WG1555173-3 WG1555173-4								
Vinyl chloride	98		99		67-130	1		30
Chloroethane	94		98		50-151	4		30
1,1-Dichloroethene	87		88		65-135	1		30
trans-1,2-Dichloroethene	86		89		70-130	3		30
Trichloroethene	85		87		70-130	2		30
1,2-Dichlorobenzene	91		94		70-130	3		30
1,3-Dichlorobenzene	93		96		70-130	3		30
1,4-Dichlorobenzene	90		92		70-130	2		30
Methyl tert butyl ether	88		89		66-130	1		30
p/m-Xylene	94		95		70-130	1		30
o-Xylene	96		95		70-130	1		30
cis-1,2-Dichloroethene	88		91		70-130	3		30
Dibromomethane	85		87		70-130	2		30
Styrene	95		96		70-130	1		30
Dichlorodifluoromethane	119		118		30-146	1		30
Acetone	**52**	Q	**50**	Q	54-140	4		30
Carbon disulfide	88		89		59-130	1		30
2-Butanone	86		78		70-130	10		30
Vinyl acetate	90		92		70-130	2		30
4-Methyl-2-pentanone	94		94		70-130	0		30
1,2,3-Trichloropropane	92		92		68-130	0		30
2-Hexanone	91		84		70-130	8		30
Bromochloromethane	87		89		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02,04-08 Batch: WG1555173-3 WG1555173-4								
2,2-Dichloropropane	95		96		70-130	1		30
1,2-Dibromoethane	93		94		70-130	1		30
1,3-Dichloropropane	92		95		69-130	3		30
1,1,1,2-Tetrachloroethane	89		92		70-130	3		30
Bromobenzene	94		95		70-130	1		30
n-Butylbenzene	98		100		70-130	2		30
sec-Butylbenzene	100		102		70-130	2		30
tert-Butylbenzene	100		103		70-130	3		30
o-Chlorotoluene	113		116		70-130	3		30
p-Chlorotoluene	99		100		70-130	1		30
1,2-Dibromo-3-chloropropane	80		86		68-130	7		30
Hexachlorobutadiene	96		99		67-130	3		30
Isopropylbenzene	99		102		70-130	3		30
p-Isopropyltoluene	98		100		70-130	2		30
Naphthalene	83		86		70-130	4		30
Acrylonitrile	84		85		70-130	1		30
n-Propylbenzene	100		103		70-130	3		30
1,2,3-Trichlorobenzene	88		89		70-130	1		30
1,2,4-Trichlorobenzene	88		91		70-130	3		30
1,3,5-Trimethylbenzene	98		101		70-130	3		30
1,2,4-Trimethylbenzene	95		97		70-130	2		30
1,4-Dioxane	92		96		65-136	4		30
p-Diethylbenzene	95		98		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02,04-08 Batch: WG1555173-3 WG1555173-4								
p-Ethyltoluene	99		101		70-130	2		30
1,2,4,5-Tetramethylbenzene	95		98		70-130	3		30
Ethyl ether	83		84		67-130	1		30
trans-1,4-Dichloro-2-butene	92		90		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		101		70-130
Toluene-d8	109		110		70-130
4-Bromofluorobenzene	109		112		70-130
Dibromofluoromethane	105		105		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03,09 QC Batch ID: WG1555109-6 WG1555109-7 QC Sample: L2153255-03 Client ID: EP28_ -3												
Methylene chloride	ND	115	90	78		94	77		70-130	5		30
1,1-Dichloroethane	ND	115	98	85		110	86		70-130	7		30
Chloroform	ND	115	89	78		92	75		70-130	3		30
Carbon tetrachloride	ND	115	110	96		110	93		70-130	3		30
1,2-Dichloropropane	ND	115	94	81		100	82		70-130	7		30
Dibromochloromethane	ND	115	100	88		120	94		70-130	12		30
1,1,2-Trichloroethane	ND	115	89	77		100	85		70-130	16		30
Tetrachloroethene	ND	115	110	95		120	100		70-130	11		30
Chlorobenzene	ND	115	95	82		100	84		70-130	7		30
Trichlorofluoromethane	ND	115	90	78		88	72		70-139	2		30
1,2-Dichloroethane	ND	115	89	77		91	74		70-130	2		30
1,1,1-Trichloroethane	ND	115	110	98		110	93		70-130	1		30
Bromodichloromethane	ND	115	98	85		99	81		70-130	1		30
trans-1,3-Dichloropropene	ND	115	99	86		110	90		70-130	10		30
cis-1,3-Dichloropropene	ND	115	110	92		110	87		70-130	0		30
1,1-Dichloropropene	ND	115	110	99		120	99		70-130	6		30
Bromoform	ND	115	98	85		100	84		70-130	4		30
1,1,2,2-Tetrachloroethane	ND	115	87	75		91	74		70-130	5		30
Benzene	ND	115	99	86		110	88		70-130	8		30
Toluene	ND	115	92	80		100	84		70-130	11		30
Ethylbenzene	ND	115	100	87		110	88		70-130	7		30
Chloromethane	ND	115	120	107		130	110		52-130	9		30
Bromomethane	ND	115	67	58		65	**53**	Q	57-147	2		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03,09 QC Batch ID: WG1555109-6 WG1555109-7 QC Sample: L2153255-03 Client ID: EP28_ -3												
Vinyl chloride	ND	115	100	88		110	89		67-130	7		30
Chloroethane	ND	115	76	66		78	64		50-151	2		30
1,1-Dichloroethene	ND	115	120	102		120	101		65-135	5		30
trans-1,2-Dichloroethene	ND	115	110	93		110	92		70-130	5		30
Trichloroethene	ND	115	100	90		110	89		70-130	5		30
1,2-Dichlorobenzene	ND	115	94	82		99	81		70-130	5		30
1,3-Dichlorobenzene	ND	115	94	82		99	81		70-130	5		30
1,4-Dichlorobenzene	ND	115	92	80		97	79		70-130	5		30
Methyl tert butyl ether	ND	115	98	85		100	82		66-130	3		30
p/m-Xylene	ND	230	210	89		220	90		70-130	6		30
o-Xylene	0.77J	230	180	78		190	77		70-130	5		30
cis-1,2-Dichloroethene	ND	115	100	86		110	86		70-130	5		30
Dibromomethane	ND	115	90	78		93	76		70-130	3		30
Styrene	ND	230	180	77		190	76		70-130	5		30
Dichlorodifluoromethane	ND	115	150	126		150	119		30-146	0		30
Acetone	ND	115	110	96		120	96		54-140	5		30
Carbon disulfide	ND	115	97	84		100	85		59-130	7		30
2-Butanone	ND	115	150	**133**	Q	170	**135**	Q	70-130	8		30
Vinyl acetate	ND	115	75	**65**	Q	76	**63**	Q	70-130	2		30
4-Methyl-2-pentanone	ND	115	100	87		110	93		70-130	13		30
1,2,3-Trichloropropane	ND	115	86	75		90	74		68-130	5		30
2-Hexanone	ND	115	140	123		170	**138**	Q	70-130	17		30
Bromochloromethane	ND	115	96	83		100	82		70-130	4		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03,09 QC Batch ID: WG1555109-6 WG1555109-7 QC Sample: L2153255-03 Client ID: EP28_ -3												
2,2-Dichloropropane	ND	115	110	99		120	97		70-130	3		30
1,2-Dibromoethane	ND	115	99	86		110	93		70-130	14		30
1,3-Dichloropropane	ND	115	92	79		110	88		69-130	16		30
1,1,1,2-Tetrachloroethane	ND	115	100	88		110	86		70-130	3		30
Bromobenzene	ND	115	100	86		100	85		70-130	4		30
n-Butylbenzene	ND	115	96	83		100	85		70-130	8		30
sec-Butylbenzene	ND	115	100	88		110	89		70-130	8		30
tert-Butylbenzene	ND	115	110	92		110	92		70-130	6		30
o-Chlorotoluene	ND	115	96	84		100	84		70-130	6		30
p-Chlorotoluene	ND	115	99	86		110	86		70-130	6		30
1,2-Dibromo-3-chloropropane	ND	115	100	88		110	87		68-130	5		30
Hexachlorobutadiene	ND	115	87	76		96	78		67-130	9		30
Isopropylbenzene	ND	115	110	91		110	92		70-130	6		30
p-Isopropyltoluene	ND	115	110	93		110	93		70-130	6		30
Naphthalene	ND	115	91	79		99	81		70-130	8		30
Acrylonitrile	ND	115	110	94		100	82		70-130	8		30
n-Propylbenzene	ND	115	99	86		110	87		70-130	6		30
1,2,3-Trichlorobenzene	ND	115	88	77		92	76		70-130	5		30
1,2,4-Trichlorobenzene	ND	115	93	81		97	79		70-130	4		30
1,3,5-Trimethylbenzene	ND	115	100	89		110	89		70-130	6		30
1,2,4-Trimethylbenzene	ND	115	110	91		110	90		70-130	5		30
1,4-Dioxane	ND	5760	6400	110		6700	109		65-136	5		30
p-Diethylbenzene	ND	115	100	90		110	92		70-130	7		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03,09 QC Batch ID: WG1555109-6 WG1555109-7 QC Sample: L2153255-03 Client ID: EP28_ -3												
p-Ethyltoluene	ND	115	100	90		110	90		70-130	6		30
1,2,4,5-Tetramethylbenzene	0.82J	115	90	78		94	77		70-130	5		30
Ethyl ether	ND	115	94	81		97	79		67-130	3		30
trans-1,4-Dichloro-2-butene	ND	115	78	**68**	Q	83	**68**	Q	70-130	5		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		94		70-130
4-Bromofluorobenzene	105		106		70-130
Dibromofluoromethane	103		100		70-130
Toluene-d8	102		106		70-130

SEMIVOLATILES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-01
Client ID: EP21_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:00
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/02/21 15:49
Analyst: EK
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 19:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	190		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-01 Date Collected: 09/30/21 12:00

Client ID: EP21_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	100	J	ug/kg	120	22.	1
Benzo(a)pyrene	99	J	ug/kg	160	48.	1
Benzo(b)fluoranthene	130		ug/kg	120	33.	1
Benzo(k)fluoranthene	39	J	ug/kg	120	32.	1
Chrysene	94	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	64	J	ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	98	J	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	71	J	ug/kg	160	28.	1
Pyrene	170		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	95.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-01 Date Collected: 09/30/21 12:00

Client ID: EP21_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	89		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	70		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-01
Client ID: EP21_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:00
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 11:48
Analyst: HT
Percent Solids: 82%

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.540	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.540	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.270	0.042	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.540	0.057	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.270	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.270	0.065	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.270	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.540	0.194	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.540	0.147	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.270	0.081	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.270	0.140	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.270	0.072	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.540	0.310	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.540	0.217	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.540	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.540	0.165	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.540	0.106	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.540	0.091	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.540	0.076	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.540	0.221	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.540	0.058	1
PFOA/PFOS, Total	ND		ng/g	0.270	0.045	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-01 Date Collected: 09/30/21 12:00

Client ID: EP21_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	92		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	108		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	93		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	81		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	85		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	81		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	102		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	87		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	15		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	70		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	91		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	85		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-02
Client ID: EP22_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:10
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/02/21 16:12
Analyst: EK
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 19:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	26.	1
2-Chloronaphthalene	ND		ug/kg	200	19.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	33.	1
Fluoranthene	250		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	49.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	66.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-02 Date Collected: 09/30/21 12:10

Client ID: EP22_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	110	J	ug/kg	120	22.	1
Benzo(a)pyrene	91	J	ug/kg	160	48.	1
Benzo(b)fluoranthene	120		ug/kg	120	33.	1
Benzo(k)fluoranthene	47	J	ug/kg	120	31.	1
Chrysene	110	J	ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	64	J	ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	130		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	72	J	ug/kg	160	27.	1
Pyrene	210		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	ND		ug/kg	200	18.	1
2-Methylnaphthalene	ND		ug/kg	230	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	31.	1
2,4-Dimethylphenol	ND		ug/kg	200	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	29.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-02 Date Collected: 09/30/21 12:10

Client ID: EP22_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	29	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	66		10-136
4-Terphenyl-d14	73		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-02
Client ID: EP22_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:10
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 12:05
Analyst: HT
Percent Solids: 83%

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.546	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.546	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.273	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.546	0.057	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.273	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.273	0.066	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.273	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.546	0.196	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.546	0.149	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.273	0.082	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.273	0.142	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.273	0.073	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.546	0.314	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.546	0.220	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.546	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.546	0.167	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.546	0.107	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.546	0.092	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.546	0.077	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.546	0.223	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.546	0.059	1
PFOA/PFOS, Total	ND		ng/g	0.273	0.046	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-02 Date Collected: 09/30/21 12:10

Client ID: EP22_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	92		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	107		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	96		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	81		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	86		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	88		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	85		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	97		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	101		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	79		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	28		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	60		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	95		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	88		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-03
Client ID: EP28_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:20
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/02/21 16:36
Analyst: EK
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 19:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	260		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-03 Date Collected: 09/30/21 12:20

Client ID: EP28_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	120		ug/kg	100	20.	1
Benzo(a)pyrene	120	J	ug/kg	140	43.	1
Benzo(b)fluoranthene	160		ug/kg	100	30.	1
Benzo(k)fluoranthene	46	J	ug/kg	100	28.	1
Chrysene	120		ug/kg	100	18.	1
Acenaphthylene	32	J	ug/kg	140	27.	1
Anthracene	35	J	ug/kg	100	34.	1
Benzo(ghi)perylene	85	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	130		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	91	J	ug/kg	140	24.	1
Pyrene	220		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	28.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-03 Date Collected: 09/30/21 12:20

Client ID: EP28_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	18	J	ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	94		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	83		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-03
Client ID: EP28_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:20
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 12:21
Analyst: HT
Percent Solids: 94%

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.514	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.514	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.257	0.040	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.514	0.054	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.257	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.257	0.062	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.257	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.514	0.185	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.514	0.140	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.257	0.077	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.257	0.134	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.257	0.069	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.514	0.295	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.514	0.207	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.514	0.048	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.514	0.157	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.514	0.101	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.514	0.087	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.514	0.072	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.514	0.210	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.514	0.056	1
PFOA/PFOS, Total	ND		ng/g	0.257	0.043	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-03 Date Collected: 09/30/21 12:20

Client ID: EP28_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	103		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	89		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	76		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	81		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	88		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	87		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	80		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	92		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	86		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	98		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	55		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	93		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	12		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	57		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	79		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	62		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-04
Client ID: EP29_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:30
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/02/21 16:59
Analyst: EK
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 19:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	160		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-04 Date Collected: 09/30/21 12:30

Client ID: EP29_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	71	J	ug/kg	120	23.	1
Benzo(a)pyrene	68	J	ug/kg	160	49.	1
Benzo(b)fluoranthene	81	J	ug/kg	120	34.	1
Benzo(k)fluoranthene	35	J	ug/kg	120	32.	1
Chrysene	70	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	48	J	ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	85	J	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	52	J	ug/kg	160	28.	1
Pyrene	140		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	83.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	76.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	970	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	97.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-04 Date Collected: 09/30/21 12:30

Client ID: EP29_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	650	200	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	30	9.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	57		10-136
4-Terphenyl-d14	61		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-04
Client ID: EP29_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:30
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 13:11
Analyst: HT
Percent Solids: 81%

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.576	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.576	0.053	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.288	0.045	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.576	0.060	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.288	0.052	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.288	0.070	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.288	0.048	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.576	0.207	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.576	0.157	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.288	0.086	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.288	0.150	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.288	0.077	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.576	0.330	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.576	0.232	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.576	0.054	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.576	0.176	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.576	0.097	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.576	0.081	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.576	0.235	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.576	0.062	1
PFOA/PFOS, Total	ND		ng/g	0.288	0.048	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-04 Date Collected: 09/30/21 12:30

Client ID: EP29_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	98		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	112		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	84		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	91		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	99		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	97		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	93		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	104		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	105		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	114		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	82		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	107		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	76		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	98		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	100		24-159

Project Name: 1607 SURF AVENUE
Lab Number: L2153255
Project Number: 170599501
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-04
Client ID: EP29_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:30
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 22:09
Analyst: HT
Percent Solids: 81%

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.576	0.113	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	84		10-117

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-05
Client ID: EP30_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:40
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/02/21 17:23
Analyst: EK
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 19:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	26.	1
2-Chloronaphthalene	ND		ug/kg	200	19.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	260		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	49.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	66.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-05 Date Collected: 09/30/21 12:40

Client ID: EP30_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	120		ug/kg	120	22.	1
Benzo(a)pyrene	110	J	ug/kg	160	48.	1
Benzo(b)fluoranthene	140		ug/kg	120	33.	1
Benzo(k)fluoranthene	55	J	ug/kg	120	31.	1
Chrysene	120		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	77	J	ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	140		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	90	J	ug/kg	160	27.	1
Pyrene	220		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	450	45.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	ND		ug/kg	200	18.	1
2-Methylnaphthalene	ND		ug/kg	230	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	31.	1
2,4-Dimethylphenol	ND		ug/kg	200	64.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-05 Date Collected: 09/30/21 12:40

Client ID: EP30_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	29	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	96		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	64		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-05
Client ID: EP30_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:40
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 13:28
Analyst: HT
Percent Solids: 84%

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.530	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.530	0.049	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.265	0.041	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.530	0.056	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.265	0.048	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.265	0.064	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.265	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.530	0.190	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.530	0.145	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.265	0.080	1
Perfluorooctanesulfonic Acid (PFOS)	0.148	J	ng/g	0.265	0.138	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.265	0.071	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.530	0.304	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.530	0.214	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.530	0.050	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.530	0.162	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.530	0.104	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.530	0.090	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.530	0.074	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.530	0.217	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.530	0.057	1
PFOA/PFOS, Total	0.148	J	ng/g	0.265	0.044	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-05 Date Collected: 09/30/21 12:40

Client ID: EP30_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	95		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	111		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	86		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	99		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	97		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	90		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	105		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	101		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	99		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	116		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	84		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	104		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	12		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	80		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	95		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	98		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-06
Client ID: EP37_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:50
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/02/21 17:47
Analyst: EK
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 19:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	370		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	73.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-06 Date Collected: 09/30/21 12:50

Client ID: EP37_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	220		ug/kg	130	24.	1
Benzo(a)pyrene	200		ug/kg	170	51.	1
Benzo(b)fluoranthene	270		ug/kg	130	35.	1
Benzo(k)fluoranthene	110	J	ug/kg	130	34.	1
Chrysene	200		ug/kg	130	22.	1
Acenaphthylene	57	J	ug/kg	170	32.	1
Anthracene	66	J	ug/kg	130	41.	1
Benzo(ghi)perylene	130	J	ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	160		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	35	J	ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	160	J	ug/kg	170	29.	1
Pyrene	310		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	87.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	79.	1
4-Nitrophenol	ND		ug/kg	300	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-06 Date Collected: 09/30/21 12:50

Client ID: EP37_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	22	J	ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	32	9.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	68		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-06
Client ID: EP37_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:50
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 13:44
Analyst: HT
Percent Solids: 78%

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.566	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.566	0.052	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.283	0.044	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.566	0.059	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.283	0.051	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.283	0.068	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.283	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.566	0.203	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.566	0.154	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.283	0.085	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.283	0.147	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.283	0.076	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.566	0.325	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.566	0.228	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.566	0.053	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.566	0.173	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.566	0.111	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.566	0.096	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.566	0.079	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.566	0.231	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.566	0.061	1
PFOA/PFOS, Total	ND		ng/g	0.283	0.047	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-06 Date Collected: 09/30/21 12:50

Client ID: EP37_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	94		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	109		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	84		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	87		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	99		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	85		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	100		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	97		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	104		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	78		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	102		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	23		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	73		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	90		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	94		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-07
Client ID: EP38_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 13:00
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/02/21 18:10
Analyst: EK
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 19:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	300		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	180	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	170	29.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-07 Date Collected: 09/30/21 13:00

Client ID: EP38_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	41.	1
Benzo(a)anthracene	140		ug/kg	120	22.	1
Benzo(a)pyrene	130	J	ug/kg	150	47.	1
Benzo(b)fluoranthene	180		ug/kg	120	32.	1
Benzo(k)fluoranthene	65	J	ug/kg	120	31.	1
Chrysene	140		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	41	J	ug/kg	120	38.	1
Benzo(ghi)perylene	84	J	ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	160		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	98	J	ug/kg	150	27.	1
Pyrene	270		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	930	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	93.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-07 Date Collected: 09/30/21 13:00

Client ID: EP38_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	8.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	105		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	81		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-07
Client ID: EP38_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 13:00
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 14:01
Analyst: HT
Percent Solids: 84%

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.586	0.027	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.586	0.054	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.293	0.046	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.586	0.062	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.293	0.053	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.293	0.071	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.293	0.049	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.586	0.210	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.586	0.160	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.293	0.088	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.293	0.152	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.293	0.079	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.586	0.336	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.586	0.236	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.586	0.055	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.586	0.179	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.586	0.115	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.586	0.099	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.586	0.082	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.586	0.240	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.586	0.063	1
PFOA/PFOS, Total	ND		ng/g	0.293	0.049	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-07 Date Collected: 09/30/21 13:00

Client ID: EP38_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	93		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	110		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	83		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	88		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	96		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	92		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	100		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	96		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	110		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	88		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	102		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	41		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	74		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	96		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-08
Client ID: EPSW11_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 13:10
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/02/21 18:34
Analyst: EK
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 19:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	160		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	2400		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	200		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-08 Date Collected: 09/30/21 13:10

Client ID: EPSW11_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	1200		ug/kg	110	22.	1
Benzo(a)pyrene	1100		ug/kg	150	47.	1
Benzo(b)fluoranthene	1300		ug/kg	110	32.	1
Benzo(k)fluoranthene	470		ug/kg	110	30.	1
Chrysene	1000		ug/kg	110	20.	1
Acenaphthylene	220		ug/kg	150	29.	1
Anthracene	450		ug/kg	110	37.	1
Benzo(ghi)perylene	640		ug/kg	150	22.	1
Fluorene	240		ug/kg	190	18.	1
Phenanthrene	1500		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	150		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	710		ug/kg	150	27.	1
Pyrene	1800		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	440	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	140	J	ug/kg	190	18.	1
2-Methylnaphthalene	58	J	ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-08 Date Collected: 09/30/21 13:10

Client ID: EPSW11_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	210		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	29	8.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	58		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-08
Client ID: EPSW11_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 13:10
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 14:17
Analyst: HT
Percent Solids: 85%

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.545	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.545	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.273	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.545	0.057	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.273	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.273	0.066	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.273	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.545	0.196	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.545	0.149	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.273	0.082	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.273	0.142	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.273	0.073	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.545	0.313	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.545	0.220	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.545	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.545	0.167	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.545	0.092	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.545	0.076	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.545	0.223	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.545	0.059	1
PFOA/PFOS, Total	ND		ng/g	0.273	0.046	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-08 Date Collected: 09/30/21 13:10

Client ID: EPSW11_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	106		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	93		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	82		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	87		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	92		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	94		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	88		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	95		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	102		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	70		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	99		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	65		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	90		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	92		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-08
Client ID: EPSW11_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 13:10
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 22:17
Analyst: HT
Percent Solids: 85%

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.545	0.107	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	72		10-117

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-09
Client ID: EPSW12_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 13:20
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/02/21 18:58
Analyst: EK
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 19:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	93	J	ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	1300		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	64	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-09 Date Collected: 09/30/21 13:20

Client ID: EPSW12_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	610		ug/kg	110	21.	1
Benzo(a)pyrene	730		ug/kg	150	46.	1
Benzo(b)fluoranthene	870		ug/kg	110	32.	1
Benzo(k)fluoranthene	320		ug/kg	110	30.	1
Chrysene	540		ug/kg	110	20.	1
Acenaphthylene	250		ug/kg	150	29.	1
Anthracene	400		ug/kg	110	37.	1
Benzo(ghi)perylene	700		ug/kg	150	22.	1
Fluorene	110	J	ug/kg	190	18.	1
Phenanthrene	920		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	150		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	770		ug/kg	150	26.	1
Pyrene	1000		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	56	J	ug/kg	190	18.	1
2-Methylnaphthalene	25	J	ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-09 Date Collected: 09/30/21 13:20

Client ID: EPSW12_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	210		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	67		10-136
4-Terphenyl-d14	69		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-09
Client ID: EPSW12_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 13:20
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 14:34
Analyst: HT
Percent Solids: 87%

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.503	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.503	0.046	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.251	0.039	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.503	0.053	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.251	0.045	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.251	0.061	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.251	0.042	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.503	0.180	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.503	0.137	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.251	0.075	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.251	0.131	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.251	0.067	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.503	0.289	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.503	0.203	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.503	0.047	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.503	0.154	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.503	0.099	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.503	0.085	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.503	0.070	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.503	0.206	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.503	0.054	1
PFOA/PFOS, Total	ND		ng/g	0.251	0.042	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-09 Date Collected: 09/30/21 13:20

Client ID: EPSW12_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	82		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	96		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	90		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	74		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	78		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	89		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	84		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	82		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	89		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	85		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	92		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	64		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	88		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	20		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	50		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	78		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	51		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/02/21 14:38
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 10/01/21 19:32

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1553534-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/02/21 14:38
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 10/01/21 19:32

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1553534-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/02/21 14:38
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 10/01/21 19:32

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1553534-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	94		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	86		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 11:15
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-09 Batch: WG1553947-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 11:15
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-09 Batch: WG1553947-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	83		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	94		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	75		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	79		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	91		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	81		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	85		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	97		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	71		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	94		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**6**	Q	10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	65		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	81		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	77		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 21:55
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-09 Batch: WG1553947-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	87		10-117

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153255

Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1553534-2 WG1553534-3								
Acenaphthene	98		77		31-137	24		50
1,2,4-Trichlorobenzene	94		83		38-107	12		50
Hexachlorobenzene	99		81		40-140	20		50
Bis(2-chloroethyl)ether	98		81		40-140	19		50
2-Chloronaphthalene	98		78		40-140	23		50
1,2-Dichlorobenzene	97		78		40-140	22		50
1,3-Dichlorobenzene	96		76		40-140	23		50
1,4-Dichlorobenzene	96		76		28-104	23		50
3,3'-Dichlorobenzidine	93		77		40-140	19		50
2,4-Dinitrotoluene	86		74		40-132	15		50
2,6-Dinitrotoluene	94		78		40-140	19		50
Fluoranthene	106		81		40-140	27		50
4-Chlorophenyl phenyl ether	98		78		40-140	23		50
4-Bromophenyl phenyl ether	97		72		40-140	30		50
Bis(2-chloroisopropyl)ether	109		86		40-140	24		50
Bis(2-chloroethoxy)methane	93		80		40-117	15		50
Hexachlorobutadiene	92		71		40-140	26		50
Hexachlorocyclopentadiene	**7**	Q	**7**	Q	40-140	4		50
Hexachloroethane	79		66		40-140	18		50
Isophorone	106		89		40-140	17		50
Naphthalene	96		78		40-140	21		50
Nitrobenzene	106		86		40-140	21		50
NDPA/DPA	101		78		36-157	26		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153255

Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1553534-2 WG1553534-3								
n-Nitrosodi-n-propylamine	108		90		32-121	18		50
Bis(2-ethylhexyl)phthalate	106		88		40-140	19		50
Butyl benzyl phthalate	107		84		40-140	24		50
Di-n-butylphthalate	100		82		40-140	20		50
Di-n-octylphthalate	107		83		40-140	25		50
Diethyl phthalate	97		83		40-140	16		50
Dimethyl phthalate	102		87		40-140	16		50
Benzo(a)anthracene	94		81		40-140	15		50
Benzo(a)pyrene	94		83		40-140	12		50
Benzo(b)fluoranthene	96		79		40-140	19		50
Benzo(k)fluoranthene	94		77		40-140	20		50
Chrysene	94		82		40-140	14		50
Acenaphthylene	98		82		40-140	18		50
Anthracene	100		84		40-140	17		50
Benzo(ghi)perylene	97		83		40-140	16		50
Fluorene	99		82		40-140	19		50
Phenanthrene	98		83		40-140	17		50
Dibenzo(a,h)anthracene	102		90		40-140	13		50
Indeno(1,2,3-cd)pyrene	103		89		40-140	15		50
Pyrene	100		79		35-142	23		50
Biphenyl	95		76		37-127	22		50
4-Chloroaniline	104		88		40-140	17		50
2-Nitroaniline	115		87		47-134	28		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1553534-2 WG1553534-3								
3-Nitroaniline	108		90		26-129	18		50
4-Nitroaniline	122		96		41-125	24		50
Dibenzofuran	92		81		40-140	13		50
2-Methylnaphthalene	97		83		40-140	16		50
1,2,4,5-Tetrachlorobenzene	93		76		40-117	20		50
Acetophenone	111		95		14-144	16		50
2,4,6-Trichlorophenol	106		81		30-130	27		50
p-Chloro-m-cresol	**105**	Q	94		26-103	11		50
2-Chlorophenol	**106**	Q	89		25-102	17		50
2,4-Dichlorophenol	103		96		30-130	7		50
2,4-Dimethylphenol	106		92		30-130	14		50
2-Nitrophenol	85		72		30-130	17		50
4-Nitrophenol	108		89		11-114	19		50
2,4-Dinitrophenol	**0**	Q	10		4-130	NC		50
4,6-Dinitro-o-cresol	**6**	Q	11		10-130	**60**	Q	50
Pentachlorophenol	91		80		17-109	13		50
Phenol	**105**	Q	90		26-90	15		50
2-Methylphenol	110		94		30-130.	16		50
3-Methylphenol/4-Methylphenol	118		103		30-130	14		50
2,4,5-Trichlorophenol	102		80		30-130	24		50
Benzoic Acid	52		44		10-110	17		50
Benzyl Alcohol	111		91		40-140	20		50
Carbazole	108		80		54-128	30		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1553534-2 WG1553534-3								
1,4-Dioxane	53		43		40-140	21		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	102		79		25-120
Phenol-d6	112		94		10-120
Nitrobenzene-d5	108		88		23-120
2-Fluorobiphenyl	93		79		30-120
2,4,6-Tribromophenol	99		80		10-136
4-Terphenyl-d14	96		76		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-09 Batch: WG1553947-2								
Perfluorobutanoic Acid (PFBA)	99		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	97		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	99		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	98		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	97		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	95		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	98		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	94		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	88		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	97		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	91		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	100		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	96		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	107		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	97		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	95		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	106		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	96		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	92		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	115		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	98		-		69-133	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-09 Batch: WG1553947-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	79				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	95				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	89				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	73				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	78				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	90				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	85				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	92				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	85				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	96				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	64				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	92				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**7**	Q			10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	66				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	86				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	78				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153255

Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab	Associated sample(s): 01-09		Batch: WG1553947-2					
Perfluorooctanesulfonamide (FOSA)	112		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	87				10-117

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153255

Report Date: 10/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1553534-4 WG1553534-5 QC Sample: L2153255-03 Client ID: EP28_ -3												
Acenaphthene	ND	1390	1100	79		1200	85		31-137	9		50
1,2,4-Trichlorobenzene	ND	1390	1200	86		1200	85		38-107	0		50
Hexachlorobenzene	ND	1390	1100	79		1100	78		40-140	0		50
Bis(2-chloroethyl)ether	ND	1390	1200	86		1200	85		40-140	0		50
2-Chloronaphthalene	ND	1390	1200	86		1200	85		40-140	0		50
1,2-Dichlorobenzene	ND	1390	1200	86		1200	85		40-140	0		50
1,3-Dichlorobenzene	ND	1390	1200	86		1200	85		40-140	0		50
1,4-Dichlorobenzene	ND	1390	1200	86		1200	85		28-104	0		50
3,3'-Dichlorobenzidine	ND	1390	1100	79		1100	78		40-140	0		50
2,4-Dinitrotoluene	ND	1390	1000	72		1100	78		40-132	10		50
2,6-Dinitrotoluene	ND	1390	1100	79		1100	78		40-140	0		50
Fluoranthene	260	1390	1600	97		1600	95		40-140	0		50
4-Chlorophenyl phenyl ether	ND	1390	1100	79		1100	78		40-140	0		50
4-Bromophenyl phenyl ether	ND	1390	1000	72		1100	78		40-140	10		50
Bis(2-chloroisopropyl)ether	ND	1390	1300	94		1300	92		40-140	0		50
Bis(2-chloroethoxy)methane	ND	1390	1200	86		1200	85		40-117	0		50
Hexachlorobutadiene	ND	1390	1100	79		1100	78		40-140	0		50
Hexachlorocyclopentadiene	ND	1390	ND	**0**	Q	ND	**0**	Q	40-140	NC		50
Hexachloroethane	ND	1390	960	69		1000	71		40-140	4		50
Isophorone	ND	1390	1300	94		1300	92		40-140	0		50
Naphthalene	ND	1390	1200	86		1200	85		40-140	0		50
Nitrobenzene	ND	1390	1300	94		1300	92		40-140	0		50
NDPA/DPA	ND	1390	1100	79		1200	85		36-157	9		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153255

Report Date: 10/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1553534-4 WG1553534-5 QC Sample: L2153255-03 Client ID: EP28_ -3												
n-Nitrosodi-n-propylamine	ND	1390	1300	94		1300	92		32-121	0		50
Bis(2-ethylhexyl)phthalate	ND	1390	1300	94		1200	85		40-140	8		50
Butyl benzyl phthalate	ND	1390	1300	94		1200	85		40-140	8		50
Di-n-butylphthalate	ND	1390	1300	94		1300	92		40-140	0		50
Di-n-octylphthalate	ND	1390	1500	110		1300	92		40-140	14		50
Diethyl phthalate	ND	1390	1100	79		1200	85		40-140	9		50
Dimethyl phthalate	ND	1390	1200	86		1200	85		40-140	0		50
Benzo(a)anthracene	120	1390	1300	85		1400	90		40-140	7		50
Benzo(a)pyrene	120J	1390	1400	100		1300	92		40-140	7		50
Benzo(b)fluoranthene	160	1390	1500	97		1500	95		40-140	0		50
Benzo(k)fluoranthene	46J	1390	1300	94		1300	92		40-140	0		50
Chrysene	120	1390	1400	92		1300	83		40-140	7		50
Acenaphthylene	32J	1390	1200	86		1200	85		40-140	0		50
Anthracene	35J	1390	1200	86		1300	92		40-140	8		50
Benzo(ghi)perylene	85J	1390	1300	94		1400	99		40-140	7		50
Fluorene	ND	1390	1200	86		1200	85		40-140	0		50
Phenanthrene	130	1390	1400	92		1500	97		40-140	7		50
Dibenzo(a,h)anthracene	ND	1390	1300	94		1300	92		40-140	0		50
Indeno(1,2,3-cd)pyrene	91J	1390	1300	94		1500	110		40-140	14		50
Pyrene	220	1390	1400	85		1500	90		35-142	7		50
Biphenyl	ND	1390	1200	86		1200	85		37-127	0		50
4-Chloroaniline	ND	1390	1200	86		1200	85		40-140	0		50
2-Nitroaniline	ND	1390	1300	94		1300	92		47-134	0		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1553534-4 WG1553534-5 QC Sample: L2153255-03 Client ID: EP28_ -3												
3-Nitroaniline	ND	1390	1300	94		1400	99		26-129	7		50
4-Nitroaniline	ND	1390	1400	100		1400	99		41-125	0		50
Dibenzofuran	ND	1390	1100	79		1200	85		40-140	9		50
2-Methylnaphthalene	ND	1390	1200	86		1200	85		40-140	0		50
1,2,4,5-Tetrachlorobenzene	ND	1390	1100	79		1100	78		40-117	0		50
Acetophenone	ND	1390	1300	94		1400	99		14-144	7		50
2,4,6-Trichlorophenol	ND	1390	1200	86		1200	85		30-130	0		50
p-Chloro-m-cresol	ND	1390	1300	94		1300	92		26-103	0		50
2-Chlorophenol	ND	1390	1300	94		1300	92		25-102	0		50
2,4-Dichlorophenol	ND	1390	1400	100		1400	99		30-130	0		50
2,4-Dimethylphenol	ND	1390	1400	100		1400	99		30-130	0		50
2-Nitrophenol	ND	1390	1000	72		1100	78		30-130	10		50
4-Nitrophenol	ND	1390	1200	86		1200	85		11-114	0		50
2,4-Dinitrophenol	ND	1390	ND	**0**	Q	ND	**0**	Q	4-130	NC		50
4,6-Dinitro-o-cresol	ND	1390	ND	**0**	Q	180J	13		10-130	NC		50
Pentachlorophenol	ND	1390	930	67		1000	71		17-109	7		50
Phenol	ND	1390	1300	**94**	Q	1300	**92**	Q	26-90	0		50
2-Methylphenol	ND	1390	1300	94		1400	99		30-130.	7		50
3-Methylphenol/4-Methylphenol	ND	1390	1400	100		1500	110		30-130	7		50
2,4,5-Trichlorophenol	ND	1390	1200	86		1200	85		30-130	0		50
Benzoic Acid	ND	1390	ND	**0**	Q	ND	**0**	Q	10-110	NC		50
Benzyl Alcohol	ND	1390	1400	100		1400	99		40-140	0		50
Carbazole	18J	1390	1300	94		1300	92		54-128	0		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1553534-4 WG1553534-5 QC Sample: L2153255-03 Client ID: EP28_ -3												
1,4-Dioxane	ND	1390	650	47		550	**39**	Q	40-140	17		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	82		83		10-136
2-Fluorobiphenyl	79		80		30-120
2-Fluorophenol	88		84		25-120
4-Terphenyl-d14	86		83		18-120
Nitrobenzene-d5	92		92		23-120
Phenol-d6	96		98		10-120

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153255

Report Date: 10/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1553947-3 WG1553947-4 QC Sample: L2153255-03 Client ID: EP28_ -3												
Perfluorobutanoic Acid (PFBA)	ND	5.06	4.99	99		4.60	99		71-135	8		30
Perfluoropentanoic Acid (PFPeA)	ND	5.06	4.93	97		4.56	98		69-132	8		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.49	4.41	98		4.11	99		72-128	7		30
Perfluorohexanoic Acid (PFHxA)	ND	5.06	4.89	97		4.74	101		70-132	3		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.06	5.00	99		4.58	98		71-131	9		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.62	4.30	93		3.96	93		67-130	8		30
Perfluorooctanoic Acid (PFOA)	ND	5.06	5.10	101		4.67	100		69-133	9		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.82	4.62	96		4.21	95		64-140	9		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.82	4.70	98		4.46	100		70-132	5		30
Perfluorononanoic Acid (PFNA)	ND	5.06	4.94	98		4.62	99		72-129	7		30
Perfluorooctanesulfonic Acid (PFOS)	ND	4.69	4.32	92		4.06	94		68-136	6		30
Perfluorodecanoic Acid (PFDA)	ND	5.06	4.90	97		4.57	98		69-133	7		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.86	4.79	99		4.63	103		65-137	3		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.06	5.03F	99		4.48F	96		63-144	12		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.06	4.90	97		4.72	101		64-136	4		30
Perfluorodecanesulfonic Acid (PFDS)	ND	4.88	4.60	94		4.32	96		59-134	6		30
Perfluorooctanesulfonamide (FOSA)	ND	5.06	4.85	96		4.68	100		67-137	4		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.06	5.12	101		4.31	92		61-139	17		30
Perfluorododecanoic Acid (PFDoA)	ND	5.06	5.02	99		4.67	100		69-135	7		30
Perfluorotridecanoic Acid (PFTrDA)	ND	5.06	6.41	127		5.87	126		66-139	9		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.06	4.90	97		4.66	100		69-133	5		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153255

Report Date: 10/06/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1553947-3 WG1553947-4 QC Sample: L2153255-03 Client ID: EP28_ -3												

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	100		93		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	87		86		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	56		65		34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	63		73		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	93		91		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		91		75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	80		79		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	82		84		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		91		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	85		84		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	52		60		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		91		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	102		103		58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	37		16		10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	94		92		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	90		91		75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		94		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		88		74-139

PCBS

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-01
Client ID: EP21_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:00
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/03/21 19:46
Analyst: JAW
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 20:19
Cleanup Method: EPA 3665A
Cleanup Date: 10/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.7	3.44	1	A
Aroclor 1221	ND		ug/kg	38.7	3.88	1	A
Aroclor 1232	ND		ug/kg	38.7	8.21	1	A
Aroclor 1242	ND		ug/kg	38.7	5.22	1	A
Aroclor 1248	ND		ug/kg	38.7	5.81	1	A
Aroclor 1254	ND		ug/kg	38.7	4.24	1	A
Aroclor 1260	ND		ug/kg	38.7	7.16	1	A
Aroclor 1262	ND		ug/kg	38.7	4.92	1	A
Aroclor 1268	ND		ug/kg	38.7	4.01	1	A
PCBs, Total	ND		ug/kg	38.7	3.44	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-02
Client ID: EP22_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:10
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/03/21 19:54
Analyst: JAW
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 20:19
Cleanup Method: EPA 3665A
Cleanup Date: 10/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.7	3.44	1	A
Aroclor 1221	ND		ug/kg	38.7	3.88	1	A
Aroclor 1232	ND		ug/kg	38.7	8.21	1	A
Aroclor 1242	ND		ug/kg	38.7	5.22	1	A
Aroclor 1248	ND		ug/kg	38.7	5.81	1	A
Aroclor 1254	ND		ug/kg	38.7	4.24	1	A
Aroclor 1260	ND		ug/kg	38.7	7.15	1	A
Aroclor 1262	ND		ug/kg	38.7	4.92	1	A
Aroclor 1268	ND		ug/kg	38.7	4.01	1	A
PCBs, Total	ND		ug/kg	38.7	3.44	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	47		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-03
Client ID: EP28_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:20
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/03/21 19:22
Analyst: JAW
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 20:19
Cleanup Method: EPA 3665A
Cleanup Date: 10/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.7	2.99	1	A
Aroclor 1221	ND		ug/kg	33.7	3.38	1	A
Aroclor 1232	ND		ug/kg	33.7	7.14	1	A
Aroclor 1242	ND		ug/kg	33.7	4.54	1	A
Aroclor 1248	ND		ug/kg	33.7	5.06	1	A
Aroclor 1254	ND		ug/kg	33.7	3.69	1	A
Aroclor 1260	ND		ug/kg	33.7	6.23	1	A
Aroclor 1262	ND		ug/kg	33.7	4.28	1	A
Aroclor 1268	ND		ug/kg	33.7	3.49	1	A
PCBs, Total	ND		ug/kg	33.7	2.99	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-04
Client ID: EP29_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:30
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/03/21 20:02
Analyst: JAW
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 20:19
Cleanup Method: EPA 3665A
Cleanup Date: 10/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.3	3.58	1	A
Aroclor 1221	ND		ug/kg	40.3	4.03	1	A
Aroclor 1232	ND		ug/kg	40.3	8.54	1	A
Aroclor 1242	ND		ug/kg	40.3	5.43	1	A
Aroclor 1248	ND		ug/kg	40.3	6.04	1	A
Aroclor 1254	ND		ug/kg	40.3	4.40	1	A
Aroclor 1260	ND		ug/kg	40.3	7.44	1	A
Aroclor 1262	ND		ug/kg	40.3	5.11	1	A
Aroclor 1268	ND		ug/kg	40.3	4.17	1	A
PCBs, Total	ND		ug/kg	40.3	3.58	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	46		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	45		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-05
Client ID: EP30_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:40
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/03/21 20:10
Analyst: JAW
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 20:19
Cleanup Method: EPA 3665A
Cleanup Date: 10/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.0	3.46	1	A
Aroclor 1221	ND		ug/kg	39.0	3.91	1	A
Aroclor 1232	ND		ug/kg	39.0	8.27	1	A
Aroclor 1242	ND		ug/kg	39.0	5.26	1	A
Aroclor 1248	ND		ug/kg	39.0	5.85	1	A
Aroclor 1254	48.5		ug/kg	39.0	4.26	1	A
Aroclor 1260	ND		ug/kg	39.0	7.20	1	A
Aroclor 1262	ND		ug/kg	39.0	4.95	1	A
Aroclor 1268	ND		ug/kg	39.0	4.04	1	A
PCBs, Total	48.5		ug/kg	39.0	3.46	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2153255
Project Number: 170599501
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-06
Client ID: EP37_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:50
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/04/21 09:41
Analyst: CW
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 20:19
Cleanup Method: EPA 3665A
Cleanup Date: 10/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.5	3.77	1	A
Aroclor 1221	ND		ug/kg	42.5	4.26	1	A
Aroclor 1232	ND		ug/kg	42.5	9.01	1	A
Aroclor 1242	ND		ug/kg	42.5	5.73	1	A
Aroclor 1248	ND		ug/kg	42.5	6.38	1	A
Aroclor 1254	ND		ug/kg	42.5	4.65	1	A
Aroclor 1260	ND		ug/kg	42.5	7.86	1	A
Aroclor 1262	ND		ug/kg	42.5	5.40	1	A
Aroclor 1268	ND		ug/kg	42.5	4.40	1	A
PCBs, Total	ND		ug/kg	42.5	3.77	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-07
Client ID: EP38_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 13:00
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/04/21 09:49
Analyst: CW
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 20:19
Cleanup Method: EPA 3665A
Cleanup Date: 10/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.5	3.51	1	A
Aroclor 1221	ND		ug/kg	39.5	3.96	1	A
Aroclor 1232	ND		ug/kg	39.5	8.37	1	A
Aroclor 1242	ND		ug/kg	39.5	5.32	1	A
Aroclor 1248	9.30	J	ug/kg	39.5	5.92	1	A
Aroclor 1254	ND		ug/kg	39.5	4.32	1	A
Aroclor 1260	ND		ug/kg	39.5	7.30	1	A
Aroclor 1262	ND		ug/kg	39.5	5.01	1	A
Aroclor 1268	ND		ug/kg	39.5	4.09	1	A
PCBs, Total	9.30	J	ug/kg	39.5	3.51	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-08
Client ID: EPSW11_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 13:10
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/04/21 09:57
Analyst: CW
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 20:19
Cleanup Method: EPA 3665A
Cleanup Date: 10/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.5	3.33	1	A
Aroclor 1221	ND		ug/kg	37.5	3.76	1	A
Aroclor 1232	ND		ug/kg	37.5	7.96	1	A
Aroclor 1242	ND		ug/kg	37.5	5.06	1	A
Aroclor 1248	ND		ug/kg	37.5	5.63	1	A
Aroclor 1254	57.6		ug/kg	37.5	4.11	1	B
Aroclor 1260	ND		ug/kg	37.5	6.94	1	A
Aroclor 1262	ND		ug/kg	37.5	4.77	1	A
Aroclor 1268	ND		ug/kg	37.5	3.89	1	A
PCBs, Total	57.6		ug/kg	37.5	3.33	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-09
Client ID: EPSW12_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 13:20
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/04/21 10:05
Analyst: CW
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 20:19
Cleanup Method: EPA 3665A
Cleanup Date: 10/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.9	3.37	1	A
Aroclor 1221	ND		ug/kg	37.9	3.80	1	A
Aroclor 1232	ND		ug/kg	37.9	8.04	1	A
Aroclor 1242	ND		ug/kg	37.9	5.12	1	A
Aroclor 1248	ND		ug/kg	37.9	5.69	1	A
Aroclor 1254	7.88	JP	ug/kg	37.9	4.15	1	A
Aroclor 1260	ND		ug/kg	37.9	7.01	1	A
Aroclor 1262	ND		ug/kg	37.9	4.82	1	A
Aroclor 1268	ND		ug/kg	37.9	3.93	1	A
PCBs, Total	7.88	J	ug/kg	37.9	3.37	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/03/21 18:58
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 10/01/21 20:19
Cleanup Method: EPA 3665A
Cleanup Date: 10/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-09 Batch: WG1553539-1						
Aroclor 1016	ND		ug/kg	32.0	2.84	A
Aroclor 1221	ND		ug/kg	32.0	3.20	A
Aroclor 1232	ND		ug/kg	32.0	6.78	A
Aroclor 1242	ND		ug/kg	32.0	4.31	A
Aroclor 1248	ND		ug/kg	32.0	4.80	A
Aroclor 1254	ND		ug/kg	32.0	3.50	A
Aroclor 1260	ND		ug/kg	32.0	5.91	A
Aroclor 1262	ND		ug/kg	32.0	4.06	A
Aroclor 1268	ND		ug/kg	32.0	3.31	A
PCBs, Total	ND		ug/kg	32.0	2.84	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	66		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-09 Batch: WG1553539-2 WG1553539-3									
Aroclor 1016	100		98		40-140	2		50	A
Aroclor 1260	86		85		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		84		30-150	A
Decachlorobiphenyl	71		70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		82		30-150	B
Decachlorobiphenyl	70		68		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153255

Report Date: 10/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1553539-4 WG1553539-5 QC Sample: L2153255-03 Client ID: EP28_ -3													
Aroclor 1016	ND	218	192	88		202	91		40-140	5		50	A
Aroclor 1260	ND	218	174	80		189	86		40-140	8		50	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		78		30-150	A
Decachlorobiphenyl	68		67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		76		30-150	B
Decachlorobiphenyl	65		68		30-150	B

PESTICIDES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-01
Client ID: EP21_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:00
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/02/21 16:34
Analyst: JAW
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 18:41
Cleanup Method: EPA 3620B
Cleanup Date: 10/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.85	0.363	1	A
Lindane	ND		ug/kg	0.773	0.345	1	A
Alpha-BHC	ND		ug/kg	0.773	0.219	1	A
Beta-BHC	ND		ug/kg	1.85	0.703	1	A
Heptachlor	ND		ug/kg	0.927	0.416	1	A
Aldrin	ND		ug/kg	1.85	0.653	1	A
Heptachlor epoxide	ND		ug/kg	3.48	1.04	1	A
Endrin	ND		ug/kg	0.773	0.317	1	A
Endrin aldehyde	ND		ug/kg	2.32	0.811	1	A
Endrin ketone	ND		ug/kg	1.85	0.478	1	A
Dieldrin	ND		ug/kg	1.16	0.580	1	A
4,4'-DDE	ND		ug/kg	1.85	0.429	1	A
4,4'-DDD	ND		ug/kg	1.85	0.662	1	A
4,4'-DDT	5.60		ug/kg	3.48	1.49	1	B
Endosulfan I	ND		ug/kg	1.85	0.438	1	A
Endosulfan II	ND		ug/kg	1.85	0.620	1	A
Endosulfan sulfate	ND		ug/kg	0.773	0.368	1	A
Methoxychlor	ND		ug/kg	3.48	1.08	1	A
Toxaphene	ND		ug/kg	34.8	9.74	1	A
cis-Chlordane	ND		ug/kg	2.32	0.646	1	A
trans-Chlordane	ND		ug/kg	2.32	0.612	1	A
Chlordane	ND		ug/kg	15.4	6.14	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-01 Date Collected: 09/30/21 12:00

Client ID: EP21_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	120		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-01
Client ID: EP21_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:00
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/04/21 12:31
Analyst: SDC
Percent Solids: 82%
Methylation Date: 10/02/21 18:34

Extraction Method: EPA 8151A
Extraction Date: 10/01/21 23:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	200	12.6	1	A
2,4,5-T	ND		ug/kg	200	6.19	1	A
2,4,5-TP (Silvex)	ND		ug/kg	200	5.31	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	83		30-150	A
DCAA	77		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-02
Client ID: EP22_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:10
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/02/21 16:45
Analyst: JAW
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 18:41
Cleanup Method: EPA 3620B
Cleanup Date: 10/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.82	0.356	1	A
Lindane	ND		ug/kg	0.758	0.339	1	A
Alpha-BHC	ND		ug/kg	0.758	0.215	1	A
Beta-BHC	ND		ug/kg	1.82	0.690	1	A
Heptachlor	ND		ug/kg	0.909	0.408	1	A
Aldrin	ND		ug/kg	1.82	0.640	1	A
Heptachlor epoxide	ND		ug/kg	3.41	1.02	1	A
Endrin	ND		ug/kg	0.758	0.311	1	A
Endrin aldehyde	ND		ug/kg	2.27	0.796	1	A
Endrin ketone	ND		ug/kg	1.82	0.468	1	A
Dieldrin	ND		ug/kg	1.14	0.568	1	A
4,4'-DDE	2.75		ug/kg	1.82	0.420	1	B
4,4'-DDD	ND		ug/kg	1.82	0.649	1	A
4,4'-DDT	1.57	JIP	ug/kg	3.41	1.46	1	A
Endosulfan I	ND		ug/kg	1.82	0.430	1	A
Endosulfan II	ND		ug/kg	1.82	0.608	1	A
Endosulfan sulfate	ND		ug/kg	0.758	0.361	1	A
Methoxychlor	ND		ug/kg	3.41	1.06	1	A
Toxaphene	ND		ug/kg	34.1	9.55	1	A
cis-Chlordane	ND		ug/kg	2.27	0.633	1	A
trans-Chlordane	ND		ug/kg	2.27	0.600	1	A
Chlordane	ND		ug/kg	15.2	6.02	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-02 Date Collected: 09/30/21 12:10

Client ID: EP22_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	108		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	97		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2153255
Project Number: 170599501
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-02
Client ID: EP22_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:10
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/04/21 12:49
Analyst: SDC
Percent Solids: 83%
Methylation Date: 10/02/21 18:34

Extraction Method: EPA 8151A
Extraction Date: 10/01/21 23:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	195	12.3	1	A
2,4,5-T	ND		ug/kg	195	6.06	1	A
2,4,5-TP (Silvex)	ND		ug/kg	195	5.20	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	75		30-150	A
DCAA	67		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-03
Client ID: EP28_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:20
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/02/21 16:00
Analyst: JAW
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 18:41
Cleanup Method: EPA 3620B
Cleanup Date: 10/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.63	0.319	1	A
Lindane	ND		ug/kg	0.679	0.304	1	A
Alpha-BHC	ND		ug/kg	0.679	0.193	1	A
Beta-BHC	ND		ug/kg	1.63	0.618	1	A
Heptachlor	ND		ug/kg	0.815	0.365	1	A
Aldrin	ND		ug/kg	1.63	0.574	1	A
Heptachlor epoxide	ND		ug/kg	3.06	0.917	1	A
Endrin	ND		ug/kg	0.679	0.278	1	A
Endrin aldehyde	ND		ug/kg	2.04	0.713	1	A
Endrin ketone	ND		ug/kg	1.63	0.420	1	A
Dieldrin	ND		ug/kg	1.02	0.509	1	A
4,4'-DDE	3.34		ug/kg	1.63	0.377	1	A
4,4'-DDD	1.17	J	ug/kg	1.63	0.581	1	B
4,4'-DDT	4.28		ug/kg	3.06	1.31	1	A
Endosulfan I	ND		ug/kg	1.63	0.385	1	A
Endosulfan II	ND		ug/kg	1.63	0.545	1	A
Endosulfan sulfate	ND		ug/kg	0.679	0.323	1	A
Methoxychlor	ND		ug/kg	3.06	0.951	1	A
Toxaphene	ND		ug/kg	30.6	8.56	1	A
cis-Chlordane	ND		ug/kg	2.04	0.568	1	A
trans-Chlordane	ND		ug/kg	2.04	0.538	1	A
Chlordane	ND		ug/kg	13.6	5.40	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-03 Date Collected: 09/30/21 12:20

Client ID: EP28_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	103		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-03
Client ID: EP28_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:20
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/04/21 13:07
Analyst: SDC
Percent Solids: 94%
Methylation Date: 10/02/21 18:34

Extraction Method: EPA 8151A
Extraction Date: 10/01/21 23:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	173	10.9	1	A
2,4,5-T	ND		ug/kg	173	5.36	1	A
2,4,5-TP (Silvex)	ND		ug/kg	173	4.60	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	81		30-150	A
DCAA	72		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-04
Client ID: EP29_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:30
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/02/21 16:57
Analyst: JAW
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 18:41
Cleanup Method: EPA 3620B
Cleanup Date: 10/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.93	0.377	1	A
Lindane	ND		ug/kg	0.803	0.359	1	A
Alpha-BHC	ND		ug/kg	0.803	0.228	1	A
Beta-BHC	ND		ug/kg	1.93	0.731	1	A
Heptachlor	ND		ug/kg	0.964	0.432	1	A
Aldrin	ND		ug/kg	1.93	0.679	1	A
Heptachlor epoxide	ND		ug/kg	3.61	1.08	1	A
Endrin	ND		ug/kg	0.803	0.329	1	A
Endrin aldehyde	ND		ug/kg	2.41	0.843	1	A
Endrin ketone	ND		ug/kg	1.93	0.496	1	A
Dieldrin	ND		ug/kg	1.20	0.602	1	A
4,4'-DDE	3.62		ug/kg	1.93	0.446	1	B
4,4'-DDD	1.42	J	ug/kg	1.93	0.687	1	B
4,4'-DDT	3.65		ug/kg	3.61	1.55	1	B
Endosulfan I	ND		ug/kg	1.93	0.455	1	A
Endosulfan II	ND		ug/kg	1.93	0.644	1	A
Endosulfan sulfate	ND		ug/kg	0.803	0.382	1	A
Methoxychlor	ND		ug/kg	3.61	1.12	1	A
Toxaphene	ND		ug/kg	36.1	10.1	1	A
cis-Chlordane	0.886	J	ug/kg	2.41	0.671	1	B
trans-Chlordane	2.08	JP	ug/kg	2.41	0.636	1	A
Chlordane	ND		ug/kg	16.1	6.38	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-04 Date Collected: 09/30/21 12:30

Client ID: EP29_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	106		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	103		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-04
Client ID: EP29_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:30
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/04/21 14:02
Analyst: SDC
Percent Solids: 81%
Methylation Date: 10/02/21 18:34

Extraction Method: EPA 8151A
Extraction Date: 10/01/21 23:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	204	12.8	1	A
2,4,5-T	ND		ug/kg	204	6.33	1	A
2,4,5-TP (Silvex)	ND		ug/kg	204	5.43	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	80		30-150	A
DCAA	71		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-05
Client ID: EP30_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:40
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/02/21 17:08
Analyst: JAW
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 18:41
Cleanup Method: EPA 3620B
Cleanup Date: 10/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.85	0.362	1	A
Lindane	ND		ug/kg	0.770	0.344	1	A
Alpha-BHC	ND		ug/kg	0.770	0.219	1	A
Beta-BHC	ND		ug/kg	1.85	0.700	1	A
Heptachlor	ND		ug/kg	0.924	0.414	1	A
Aldrin	ND		ug/kg	1.85	0.650	1	A
Heptachlor epoxide	ND		ug/kg	3.46	1.04	1	A
Endrin	ND		ug/kg	0.770	0.316	1	A
Endrin aldehyde	ND		ug/kg	2.31	0.808	1	A
Endrin ketone	ND		ug/kg	1.85	0.476	1	A
Dieldrin	ND		ug/kg	1.15	0.577	1	A
4,4'-DDE	4.31		ug/kg	1.85	0.427	1	A
4,4'-DDD	2.18		ug/kg	1.85	0.659	1	B
4,4'-DDT	4.15		ug/kg	3.46	1.48	1	B
Endosulfan I	ND		ug/kg	1.85	0.436	1	A
Endosulfan II	ND		ug/kg	1.85	0.617	1	A
Endosulfan sulfate	ND		ug/kg	0.770	0.366	1	A
Methoxychlor	ND		ug/kg	3.46	1.08	1	A
Toxaphene	ND		ug/kg	34.6	9.70	1	A
cis-Chlordane	1.13	J	ug/kg	2.31	0.644	1	A
trans-Chlordane	3.07		ug/kg	2.31	0.610	1	A
Chlordane	ND		ug/kg	15.4	6.12	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-05 Date Collected: 09/30/21 12:40

Client ID: EP30_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	102		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-05
Client ID: EP30_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:40
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/04/21 14:21
Analyst: SDC
Percent Solids: 84%
Methylation Date: 10/02/21 18:34

Extraction Method: EPA 8151A
Extraction Date: 10/01/21 23:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	194	12.2	1	A
2,4,5-T	ND		ug/kg	194	6.00	1	A
2,4,5-TP (Silvex)	ND		ug/kg	194	5.15	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	81		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-06
Client ID: EP37_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:50
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/02/21 17:19
Analyst: JAW
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 18:41
Cleanup Method: EPA 3620B
Cleanup Date: 10/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.01	0.394	1	A
Lindane	ND		ug/kg	0.840	0.375	1	A
Alpha-BHC	ND		ug/kg	0.840	0.238	1	A
Beta-BHC	ND		ug/kg	2.01	0.764	1	A
Heptachlor	ND		ug/kg	1.01	0.452	1	A
Aldrin	ND		ug/kg	2.01	0.709	1	A
Heptachlor epoxide	ND		ug/kg	3.78	1.13	1	A
Endrin	ND		ug/kg	0.840	0.344	1	A
Endrin aldehyde	ND		ug/kg	2.52	0.882	1	A
Endrin ketone	ND		ug/kg	2.01	0.519	1	A
Dieldrin	ND		ug/kg	1.26	0.630	1	A
4,4'-DDE	3.40		ug/kg	2.01	0.466	1	B
4,4'-DDD	1.62	J	ug/kg	2.01	0.719	1	B
4,4'-DDT	3.06	J	ug/kg	3.78	1.62	1	B
Endosulfan I	ND		ug/kg	2.01	0.476	1	A
Endosulfan II	ND		ug/kg	2.01	0.673	1	A
Endosulfan sulfate	ND		ug/kg	0.840	0.400	1	A
Methoxychlor	ND		ug/kg	3.78	1.18	1	A
Toxaphene	ND		ug/kg	37.8	10.6	1	A
cis-Chlordane	ND		ug/kg	2.52	0.702	1	A
trans-Chlordane	ND		ug/kg	2.52	0.665	1	A
Chlordane	ND		ug/kg	16.8	6.67	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-06 Date Collected: 09/30/21 12:50

Client ID: EP37_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	106		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2153255
Project Number: 170599501
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-06
Client ID: EP37_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:50
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/04/21 14:39
Analyst: SDC
Percent Solids: 78%
Methylation Date: 10/02/21 18:34

Extraction Method: EPA 8151A
Extraction Date: 10/01/21 23:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	211	13.3	1	A
2,4,5-T	ND		ug/kg	211	6.54	1	A
2,4,5-TP (Silvex)	ND		ug/kg	211	5.61	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	99		30-150	A
DCAA	91		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-07
Client ID: EP38_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 13:00
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/02/21 17:30
Analyst: JAW
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 18:41
Cleanup Method: EPA 3620B
Cleanup Date: 10/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.90	0.372	1	A
Lindane	ND		ug/kg	0.791	0.354	1	A
Alpha-BHC	ND		ug/kg	0.791	0.225	1	A
Beta-BHC	ND		ug/kg	1.90	0.720	1	A
Heptachlor	ND		ug/kg	0.949	0.426	1	A
Aldrin	ND		ug/kg	1.90	0.668	1	A
Heptachlor epoxide	ND		ug/kg	3.56	1.07	1	A
Endrin	ND		ug/kg	0.791	0.324	1	A
Endrin aldehyde	ND		ug/kg	2.37	0.831	1	A
Endrin ketone	ND		ug/kg	1.90	0.489	1	A
Dieldrin	ND		ug/kg	1.19	0.593	1	A
4,4'-DDE	4.78		ug/kg	1.90	0.439	1	B
4,4'-DDD	2.06		ug/kg	1.90	0.677	1	B
4,4'-DDT	3.05	J	ug/kg	3.56	1.53	1	A
Endosulfan I	ND		ug/kg	1.90	0.449	1	A
Endosulfan II	ND		ug/kg	1.90	0.634	1	A
Endosulfan sulfate	ND		ug/kg	0.791	0.377	1	A
Methoxychlor	ND		ug/kg	3.56	1.11	1	A
Toxaphene	ND		ug/kg	35.6	9.97	1	A
cis-Chlordane	ND		ug/kg	2.37	0.661	1	A
trans-Chlordane	ND		ug/kg	2.37	0.627	1	A
Chlordane	ND		ug/kg	15.8	6.29	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-07 Date Collected: 09/30/21 13:00

Client ID: EP38_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2153255
Project Number: 170599501
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-07
Client ID: EP38_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 13:00
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/04/21 14:57
Analyst: SDC
Percent Solids: 84%
Methylation Date: 10/02/21 18:34

Extraction Method: EPA 8151A
Extraction Date: 10/01/21 23:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	196	12.3	1	A
2,4,5-T	ND		ug/kg	196	6.07	1	A
2,4,5-TP (Silvex)	ND		ug/kg	196	5.21	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	86		30-150	A
DCAA	75		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-08
Client ID: EPSW11_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 13:10
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/02/21 17:41
Analyst: JAW
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 18:41
Cleanup Method: EPA 3620B
Cleanup Date: 10/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.77	0.346	1	B
Lindane	ND		ug/kg	0.737	0.330	1	B
Alpha-BHC	ND		ug/kg	0.737	0.209	1	B
Beta-BHC	ND		ug/kg	1.77	0.671	1	B
Heptachlor	ND		ug/kg	0.885	0.397	1	B
Aldrin	ND		ug/kg	1.77	0.623	1	B
Heptachlor epoxide	ND		ug/kg	3.32	0.995	1	B
Endrin	ND		ug/kg	0.737	0.302	1	B
Endrin aldehyde	ND		ug/kg	2.21	0.774	1	B
Endrin ketone	ND		ug/kg	1.77	0.456	1	B
Dieldrin	ND		ug/kg	1.10	0.553	1	B
4,4'-DDE	31.0	P	ug/kg	1.77	0.409	1	B
4,4'-DDD	25.3	P	ug/kg	1.77	0.631	1	B
4,4'-DDT	23.3	P	ug/kg	3.32	1.42	1	B
Endosulfan I	ND		ug/kg	1.77	0.418	1	B
Endosulfan II	ND		ug/kg	1.77	0.591	1	B
Endosulfan sulfate	ND		ug/kg	0.737	0.351	1	B
Methoxychlor	ND		ug/kg	3.32	1.03	1	B
Toxaphene	ND		ug/kg	33.2	9.29	1	B
cis-Chlordane	4.65	P	ug/kg	2.21	0.616	1	B
trans-Chlordane	7.68	P	ug/kg	2.21	0.584	1	B
Chlordane	ND		ug/kg	14.7	5.86	1	B

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-08 Date Collected: 09/30/21 13:10

Client ID: EPSW11_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	**3**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	107		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2153255
Project Number: 170599501
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-08
Client ID: EPSW11_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 13:10
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/04/21 15:16
Analyst: SDC
Percent Solids: 85%
Methylation Date: 10/02/21 18:34

Extraction Method: EPA 8151A
Extraction Date: 10/01/21 23:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	194	12.2	1	A
2,4,5-T	ND		ug/kg	194	6.01	1	A
2,4,5-TP (Silvex)	ND		ug/kg	194	5.16	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	66		30-150	A
DCAA	69		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-09
Client ID: EPSW12_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 13:20
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/02/21 17:53
Analyst: JAW
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 10/01/21 18:41
Cleanup Method: EPA 3620B
Cleanup Date: 10/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.73	0.339	1	A
Lindane	ND		ug/kg	0.721	0.322	1	A
Alpha-BHC	ND		ug/kg	0.721	0.205	1	A
Beta-BHC	ND		ug/kg	1.73	0.656	1	A
Heptachlor	ND		ug/kg	0.866	0.388	1	A
Aldrin	ND		ug/kg	1.73	0.609	1	A
Heptachlor epoxide	ND		ug/kg	3.24	0.974	1	A
Endrin	ND		ug/kg	0.721	0.296	1	A
Endrin aldehyde	ND		ug/kg	2.16	0.757	1	A
Endrin ketone	ND		ug/kg	1.73	0.446	1	A
Dieldrin	ND		ug/kg	1.08	0.541	1	A
4,4'-DDE	16.1		ug/kg	1.73	0.400	1	B
4,4'-DDD	3.55		ug/kg	1.73	0.617	1	A
4,4'-DDT	25.8		ug/kg	3.24	1.39	1	B
Endosulfan I	ND		ug/kg	1.73	0.409	1	A
Endosulfan II	ND		ug/kg	1.73	0.578	1	A
Endosulfan sulfate	ND		ug/kg	0.721	0.343	1	A
Methoxychlor	ND		ug/kg	3.24	1.01	1	A
Toxaphene	ND		ug/kg	32.4	9.09	1	A
cis-Chlordane	0.924	J	ug/kg	2.16	0.603	1	B
trans-Chlordane	2.01	JP	ug/kg	2.16	0.571	1	A
Chlordane	ND		ug/kg	14.4	5.73	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-09 Date Collected: 09/30/21 13:20

Client ID: EPSW12_ -3 Date Received: 09/30/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	106		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2153255
Project Number: 170599501
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-09
Client ID: EPSW12_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 13:20
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/04/21 15:52
Analyst: SDC
Percent Solids: 87%
Methylation Date: 10/02/21 18:34

Extraction Method: EPA 8151A
Extraction Date: 10/01/21 23:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	188	11.8	1	A
2,4,5-T	ND		ug/kg	188	5.82	1	A
2,4,5-TP (Silvex)	ND		ug/kg	188	5.00	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	81		30-150	A
DCAA	73		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/02/21 15:27
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 10/01/21 18:41
Cleanup Method: EPA 3620B
Cleanup Date: 10/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-09 Batch: WG1553530-1						
Delta-BHC	ND		ug/kg	1.52	0.297	A
Lindane	ND		ug/kg	0.632	0.283	A
Alpha-BHC	ND		ug/kg	0.632	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.576	A
Heptachlor	ND		ug/kg	0.759	0.340	A
Aldrin	ND		ug/kg	1.52	0.534	A
Heptachlor epoxide	ND		ug/kg	2.85	0.854	A
Endrin	ND		ug/kg	0.632	0.259	A
Endrin aldehyde	ND		ug/kg	1.90	0.664	A
Endrin ketone	ND		ug/kg	1.52	0.391	A
Dieldrin	ND		ug/kg	0.949	0.474	A
4,4'-DDE	ND		ug/kg	1.52	0.351	A
4,4'-DDD	ND		ug/kg	1.52	0.541	A
4,4'-DDT	ND		ug/kg	2.85	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.359	A
Endosulfan II	ND		ug/kg	1.52	0.507	A
Endosulfan sulfate	ND		ug/kg	0.632	0.301	A
Methoxychlor	ND		ug/kg	2.85	0.886	A
Toxaphene	ND		ug/kg	28.5	7.97	A
cis-Chlordane	ND		ug/kg	1.90	0.529	A
trans-Chlordane	ND		ug/kg	1.90	0.501	A
Chlordane	ND		ug/kg	12.6	5.03	A

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/02/21 15:27
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 10/01/21 18:41
Cleanup Method: EPA 3620B
Cleanup Date: 10/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-09 Batch: WG1553530-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 10/04/21 11:17
Analyst: SDC

Extraction Method: EPA 8151A
Extraction Date: 10/01/21 23:29

Methylation Date: 10/02/21 18:34

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-09 Batch: WG1553554-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.01	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.30	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	87		30-150	A
DCAA	75		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-09 Batch: WG1553530-2 WG1553530-3									
Delta-BHC	57		58		30-150	2		30	A
Lindane	61		61		30-150	0		30	A
Alpha-BHC	57		58		30-150	2		30	A
Beta-BHC	56		56		30-150	0		30	A
Heptachlor	70		70		30-150	0		30	A
Aldrin	67		66		30-150	2		30	A
Heptachlor epoxide	58		58		30-150	0		30	A
Endrin	69		68		30-150	1		30	A
Endrin aldehyde	56		54		30-150	4		30	A
Endrin ketone	57		59		30-150	3		30	A
Dieldrin	69		68		30-150	1		30	A
4,4'-DDE	63		64		30-150	2		30	A
4,4'-DDD	70		67		30-150	4		30	A
4,4'-DDT	71		70		30-150	1		30	A
Endosulfan I	62		62		30-150	0		30	A
Endosulfan II	66		63		30-150	5		30	A
Endosulfan sulfate	60		60		30-150	0		30	A
Methoxychlor	65		65		30-150	0		30	A
cis-Chlordane	50		49		30-150	2		30	A
trans-Chlordane	76		74		30-150	3		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-09 Batch: WG1553530-2 WG1553530-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		72		30-150	A
Decachlorobiphenyl	100		99		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		65		30-150	B
Decachlorobiphenyl	70		72		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-09 Batch: WG1553554-2 WG1553554-3									
2,4-D	78		77		30-150	1		30	A
2,4,5-T	81		77		30-150	5		30	A
2,4,5-TP (Silvex)	82		79		30-150	4		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	87		82		30-150	A
DCAA	84		82		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153255

Report Date: 10/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1553530-4 WG1553530-5 QC Sample: L2153255-03 Client ID: EP28_ -3													
Delta-BHC	ND	33.6	28.8	86		30.4	89		30-150	5		50	A
Lindane	ND	33.6	29.8	89		30.3	89		30-150	2		50	A
Alpha-BHC	ND	33.6	27.5	82		28.3	83		30-150	3		50	A
Beta-BHC	ND	33.6	22.8	68		26.2	77		30-150	14		50	A
Heptachlor	ND	33.6	31.3	93		31.6	93		30-150	1		50	A
Aldrin	ND	33.6	30.7	91		31.5	93		30-150	3		50	A
Heptachlor epoxide	ND	33.6	29.1	87		28.2	83		30-150	3		50	A
Endrin	ND	33.6	34.7	103		32.0	94		30-150	8		50	A
Endrin aldehyde	ND	33.6	24.8	74		24.7	73		30-150	0		50	A
Endrin ketone	ND	33.6	29.8	89		27.8	82		30-150	7		50	A
Dieldrin	ND	33.6	31.8	95		32.3	95		30-150	2		50	A
4,4'-DDE	3.34	33.6	31.7	84		32.3	85		30-150	2		50	A
4,4'-DDD	1.17J	33.6	30.8	92		30.5	90		30-150	1		50	B
4,4'-DDT	4.28	33.6	36.6	96		39.9	105		30-150	9		50	A
Endosulfan I	ND	33.6	28.2	84		27.8	82		30-150	1		50	A
Endosulfan II	ND	33.6	30.5	91		30.8	91		30-150	1		50	A
Endosulfan sulfate	ND	33.6	25.1	75		26.7	78		30-150	6		50	A
Methoxychlor	ND	33.6	33.0	98		30.6	90		30-150	8		50	A
cis-Chlordane	ND	33.6	23.3	69		23.5	69		30-150	1		50	A
trans-Chlordane	ND	33.6	32.5	97		33.8	99		30-150	4		50	A

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1553530-4 WG1553530-5 QC Sample: L2153255-03 Client ID: EP28_ -3												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	102		82		30-150	A
Decachlorobiphenyl	95		105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		76		30-150	B
Decachlorobiphenyl	96		85		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153255

Report Date: 10/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1553554-4 WG1553554-5 QC Sample: L2153255-03 Client ID: EP28_ -3													
2,4-D	ND	177	141J	80		126J	73		30-150	11		30	A
2,4,5-T	ND	177	142J	80		126J	73		30-150	12		30	A
2,4,5-TP (Silvex)	ND	177	146J	83		131J	76		30-150	11		30	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
DCAA	90		82		30-150	A
DCAA	86		78		30-150	B

METALS

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-01
Client ID: EP21_ -3
Sample Location: BROOKLYN, NY
Date Collected: 09/30/21 12:00
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	824		mg/kg	9.57	2.58	2	10/01/21 21:25	10/04/21 16:06	EPA 3050B	1,6010D	SV
Antimony, Total	0.421	J	mg/kg	4.79	0.364	2	10/01/21 21:25	10/04/21 16:06	EPA 3050B	1,6010D	SV
Arsenic, Total	0.412	J	mg/kg	0.957	0.199	2	10/01/21 21:25	10/04/21 16:06	EPA 3050B	1,6010D	SV
Barium, Total	17.7		mg/kg	0.957	0.166	2	10/01/21 21:25	10/04/21 16:06	EPA 3050B	1,6010D	SV
Beryllium, Total	0.086	J	mg/kg	0.479	0.032	2	10/01/21 21:25	10/04/21 16:06	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.957	0.094	2	10/01/21 21:25	10/04/21 16:06	EPA 3050B	1,6010D	SV
Calcium, Total	2440		mg/kg	9.57	3.35	2	10/01/21 21:25	10/04/21 16:06	EPA 3050B	1,6010D	SV
Chromium, Total	3.62		mg/kg	0.957	0.092	2	10/01/21 21:25	10/04/21 16:06	EPA 3050B	1,6010D	SV
Cobalt, Total	2.42		mg/kg	1.91	0.159	2	10/01/21 21:25	10/04/21 16:06	EPA 3050B	1,6010D	SV
Copper, Total	6.77		mg/kg	0.957	0.247	2	10/01/21 21:25	10/04/21 16:06	EPA 3050B	1,6010D	SV
Iron, Total	1720		mg/kg	4.79	0.864	2	10/01/21 21:25	10/04/21 16:06	EPA 3050B	1,6010D	SV
Lead, Total	17.1		mg/kg	4.79	0.256	2	10/01/21 21:25	10/04/21 16:06	EPA 3050B	1,6010D	SV
Magnesium, Total	623		mg/kg	9.57	1.47	2	10/01/21 21:25	10/04/21 16:06	EPA 3050B	1,6010D	SV
Manganese, Total	57.8		mg/kg	0.957	0.152	2	10/01/21 21:25	10/04/21 16:06	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.079	0.052	1	10/01/21 22:16	10/02/21 17:27	EPA 7471B	1,7471B	NB
Nickel, Total	1.90	J	mg/kg	2.39	0.232	2	10/01/21 21:25	10/04/21 16:06	EPA 3050B	1,6010D	SV
Potassium, Total	187	J	mg/kg	239	13.8	2	10/01/21 21:25	10/04/21 16:06	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.91	0.247	2	10/01/21 21:25	10/04/21 16:06	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.957	0.271	2	10/01/21 21:25	10/04/21 16:06	EPA 3050B	1,6010D	SV
Sodium, Total	89.9	J	mg/kg	191	3.02	2	10/01/21 21:25	10/04/21 16:06	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.91	0.302	2	10/01/21 21:25	10/04/21 16:06	EPA 3050B	1,6010D	SV
Vanadium, Total	3.24		mg/kg	0.957	0.194	2	10/01/21 21:25	10/04/21 16:06	EPA 3050B	1,6010D	SV
Zinc, Total	71.2		mg/kg	4.79	0.280	2	10/01/21 21:25	10/04/21 16:06	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	3.6		mg/kg	0.98	0.98	1		10/05/21 13:17	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-02
Client ID: EP22_ -3
Sample Location: BROOKLYN, NY
Date Collected: 09/30/21 12:10
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	523		mg/kg	9.28	2.51	2	10/01/21 21:25	10/04/21 16:11	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.64	0.353	2	10/01/21 21:25	10/04/21 16:11	EPA 3050B	1,6010D	SV
Arsenic, Total	0.715	J	mg/kg	0.928	0.193	2	10/01/21 21:25	10/04/21 16:11	EPA 3050B	1,6010D	SV
Barium, Total	14.0		mg/kg	0.928	0.162	2	10/01/21 21:25	10/04/21 16:11	EPA 3050B	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.464	0.031	2	10/01/21 21:25	10/04/21 16:11	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.928	0.091	2	10/01/21 21:25	10/04/21 16:11	EPA 3050B	1,6010D	SV
Calcium, Total	1060		mg/kg	9.28	3.25	2	10/01/21 21:25	10/04/21 16:11	EPA 3050B	1,6010D	SV
Chromium, Total	2.45		mg/kg	0.928	0.089	2	10/01/21 21:25	10/04/21 16:11	EPA 3050B	1,6010D	SV
Cobalt, Total	0.640	J	mg/kg	1.86	0.154	2	10/01/21 21:25	10/04/21 16:11	EPA 3050B	1,6010D	SV
Copper, Total	3.40		mg/kg	0.928	0.239	2	10/01/21 21:25	10/04/21 16:11	EPA 3050B	1,6010D	SV
Iron, Total	1530		mg/kg	4.64	0.838	2	10/01/21 21:25	10/04/21 16:11	EPA 3050B	1,6010D	SV
Lead, Total	40.2		mg/kg	4.64	0.249	2	10/01/21 21:25	10/04/21 16:11	EPA 3050B	1,6010D	SV
Magnesium, Total	268		mg/kg	9.28	1.43	2	10/01/21 21:25	10/04/21 16:11	EPA 3050B	1,6010D	SV
Manganese, Total	13.4		mg/kg	0.928	0.148	2	10/01/21 21:25	10/04/21 16:11	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.082	0.053	1	10/01/21 22:16	10/02/21 17:30	EPA 7471B	1,7471B	NB
Nickel, Total	1.75	J	mg/kg	2.32	0.225	2	10/01/21 21:25	10/04/21 16:11	EPA 3050B	1,6010D	SV
Potassium, Total	140	J	mg/kg	232	13.4	2	10/01/21 21:25	10/04/21 16:11	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.86	0.239	2	10/01/21 21:25	10/04/21 16:11	EPA 3050B	1,6010D	SV
Silver, Total	0.520	J	mg/kg	0.928	0.263	2	10/01/21 21:25	10/04/21 16:11	EPA 3050B	1,6010D	SV
Sodium, Total	82.9	J	mg/kg	186	2.92	2	10/01/21 21:25	10/04/21 16:11	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.86	0.292	2	10/01/21 21:25	10/04/21 16:11	EPA 3050B	1,6010D	SV
Vanadium, Total	3.52		mg/kg	0.928	0.188	2	10/01/21 21:25	10/04/21 16:11	EPA 3050B	1,6010D	SV
Zinc, Total	39.6		mg/kg	4.64	0.272	2	10/01/21 21:25	10/04/21 16:11	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.4		mg/kg	0.96	0.96	1		10/05/21 13:17	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-03
Client ID: EP28_ -3
Sample Location: BROOKLYN, NY
Date Collected: 09/30/21 12:20
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	533		mg/kg	8.39	2.26	2	10/01/21 21:25	10/04/21 15:25	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.20	0.319	2	10/01/21 21:25	10/04/21 15:25	EPA 3050B	1,6010D	SV
Arsenic, Total	0.327	J	mg/kg	0.839	0.174	2	10/01/21 21:25	10/04/21 15:25	EPA 3050B	1,6010D	SV
Barium, Total	10.3		mg/kg	0.839	0.146	2	10/01/21 21:25	10/04/21 15:25	EPA 3050B	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.420	0.028	2	10/01/21 21:25	10/04/21 15:25	EPA 3050B	1,6010D	SV
Cadmium, Total	0.084	J	mg/kg	0.839	0.082	2	10/01/21 21:25	10/04/21 15:25	EPA 3050B	1,6010D	SV
Calcium, Total	891		mg/kg	8.39	2.94	2	10/01/21 21:25	10/04/21 15:25	EPA 3050B	1,6010D	SV
Chromium, Total	2.84		mg/kg	0.839	0.081	2	10/01/21 21:25	10/04/21 15:25	EPA 3050B	1,6010D	SV
Cobalt, Total	0.562	J	mg/kg	1.68	0.139	2	10/01/21 21:25	10/04/21 15:25	EPA 3050B	1,6010D	SV
Copper, Total	2.57		mg/kg	0.839	0.216	2	10/01/21 21:25	10/04/21 15:25	EPA 3050B	1,6010D	SV
Iron, Total	1260		mg/kg	4.20	0.758	2	10/01/21 21:25	10/04/21 15:25	EPA 3050B	1,6010D	SV
Lead, Total	12.6		mg/kg	4.20	0.225	2	10/01/21 21:25	10/04/21 15:25	EPA 3050B	1,6010D	SV
Magnesium, Total	299		mg/kg	8.39	1.29	2	10/01/21 21:25	10/04/21 15:25	EPA 3050B	1,6010D	SV
Manganese, Total	13.4		mg/kg	0.839	0.133	2	10/01/21 21:25	10/04/21 15:25	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.070	0.046	1	10/01/21 22:16	10/02/21 16:57	EPA 7471B	1,7471B	NB
Nickel, Total	1.43	J	mg/kg	2.10	0.203	2	10/01/21 21:25	10/04/21 15:25	EPA 3050B	1,6010D	SV
Potassium, Total	107	J	mg/kg	210	12.1	2	10/01/21 21:25	10/04/21 15:25	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.68	0.216	2	10/01/21 21:25	10/04/21 15:25	EPA 3050B	1,6010D	SV
Silver, Total	0.562	J	mg/kg	0.839	0.237	2	10/01/21 21:25	10/04/21 15:25	EPA 3050B	1,6010D	SV
Sodium, Total	18.5	J	mg/kg	168	2.64	2	10/01/21 21:25	10/04/21 15:25	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.68	0.264	2	10/01/21 21:25	10/04/21 15:25	EPA 3050B	1,6010D	SV
Vanadium, Total	2.90		mg/kg	0.839	0.170	2	10/01/21 21:25	10/04/21 15:25	EPA 3050B	1,6010D	SV
Zinc, Total	25.6		mg/kg	4.20	0.246	2	10/01/21 21:25	10/04/21 15:25	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.8		mg/kg	0.85	0.85	1		10/05/21 13:17	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-04
Client ID: EP29_ -3
Sample Location: BROOKLYN, NY
Date Collected: 09/30/21 12:30
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	569		mg/kg	9.65	2.61	2	10/01/21 21:25	10/04/21 16:15	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.83	0.367	2	10/01/21 21:25	10/04/21 16:15	EPA 3050B	1,6010D	SV
Arsenic, Total	0.425	J	mg/kg	0.965	0.201	2	10/01/21 21:25	10/04/21 16:15	EPA 3050B	1,6010D	SV
Barium, Total	10.4		mg/kg	0.965	0.168	2	10/01/21 21:25	10/04/21 16:15	EPA 3050B	1,6010D	SV
Beryllium, Total	0.048	J	mg/kg	0.483	0.032	2	10/01/21 21:25	10/04/21 16:15	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.965	0.095	2	10/01/21 21:25	10/04/21 16:15	EPA 3050B	1,6010D	SV
Calcium, Total	1070		mg/kg	9.65	3.38	2	10/01/21 21:25	10/04/21 16:15	EPA 3050B	1,6010D	SV
Chromium, Total	2.75		mg/kg	0.965	0.093	2	10/01/21 21:25	10/04/21 16:15	EPA 3050B	1,6010D	SV
Cobalt, Total	0.608	J	mg/kg	1.93	0.160	2	10/01/21 21:25	10/04/21 16:15	EPA 3050B	1,6010D	SV
Copper, Total	2.38		mg/kg	0.965	0.249	2	10/01/21 21:25	10/04/21 16:15	EPA 3050B	1,6010D	SV
Iron, Total	1350		mg/kg	4.83	0.872	2	10/01/21 21:25	10/04/21 16:15	EPA 3050B	1,6010D	SV
Lead, Total	15.3		mg/kg	4.83	0.259	2	10/01/21 21:25	10/04/21 16:15	EPA 3050B	1,6010D	SV
Magnesium, Total	442		mg/kg	9.65	1.49	2	10/01/21 21:25	10/04/21 16:15	EPA 3050B	1,6010D	SV
Manganese, Total	15.7		mg/kg	0.965	0.153	2	10/01/21 21:25	10/04/21 16:15	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.084	0.055	1	10/01/21 22:16	10/02/21 17:33	EPA 7471B	1,7471B	NB
Nickel, Total	1.71	J	mg/kg	2.41	0.234	2	10/01/21 21:25	10/04/21 16:15	EPA 3050B	1,6010D	SV
Potassium, Total	132	J	mg/kg	241	13.9	2	10/01/21 21:25	10/04/21 16:15	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.93	0.249	2	10/01/21 21:25	10/04/21 16:15	EPA 3050B	1,6010D	SV
Silver, Total	0.570	J	mg/kg	0.965	0.273	2	10/01/21 21:25	10/04/21 16:15	EPA 3050B	1,6010D	SV
Sodium, Total	176	J	mg/kg	193	3.04	2	10/01/21 21:25	10/04/21 16:15	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.93	0.304	2	10/01/21 21:25	10/04/21 16:15	EPA 3050B	1,6010D	SV
Vanadium, Total	3.00		mg/kg	0.965	0.196	2	10/01/21 21:25	10/04/21 16:15	EPA 3050B	1,6010D	SV
Zinc, Total	24.2		mg/kg	4.83	0.283	2	10/01/21 21:25	10/04/21 16:15	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.8		mg/kg	0.99	0.99	1		10/05/21 13:17	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-05
Client ID: EP30_ -3
Sample Location: BROOKLYN, NY
Date Collected: 09/30/21 12:40
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	490		mg/kg	9.03	2.44	2	10/01/21 21:25	10/04/21 16:20	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.52	0.343	2	10/01/21 21:25	10/04/21 16:20	EPA 3050B	1,6010D	SV
Arsenic, Total	0.289	J	mg/kg	0.903	0.188	2	10/01/21 21:25	10/04/21 16:20	EPA 3050B	1,6010D	SV
Barium, Total	9.77		mg/kg	0.903	0.157	2	10/01/21 21:25	10/04/21 16:20	EPA 3050B	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.452	0.030	2	10/01/21 21:25	10/04/21 16:20	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.903	0.089	2	10/01/21 21:25	10/04/21 16:20	EPA 3050B	1,6010D	SV
Calcium, Total	848		mg/kg	9.03	3.16	2	10/01/21 21:25	10/04/21 16:20	EPA 3050B	1,6010D	SV
Chromium, Total	2.57		mg/kg	0.903	0.087	2	10/01/21 21:25	10/04/21 16:20	EPA 3050B	1,6010D	SV
Cobalt, Total	0.542	J	mg/kg	1.81	0.150	2	10/01/21 21:25	10/04/21 16:20	EPA 3050B	1,6010D	SV
Copper, Total	2.79		mg/kg	0.903	0.233	2	10/01/21 21:25	10/04/21 16:20	EPA 3050B	1,6010D	SV
Iron, Total	1190		mg/kg	4.52	0.815	2	10/01/21 21:25	10/04/21 16:20	EPA 3050B	1,6010D	SV
Lead, Total	13.0		mg/kg	4.52	0.242	2	10/01/21 21:25	10/04/21 16:20	EPA 3050B	1,6010D	SV
Magnesium, Total	314		mg/kg	9.03	1.39	2	10/01/21 21:25	10/04/21 16:20	EPA 3050B	1,6010D	SV
Manganese, Total	13.2		mg/kg	0.903	0.144	2	10/01/21 21:25	10/04/21 16:20	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.076	0.050	1	10/01/21 22:16	10/02/21 17:37	EPA 7471B	1,7471B	NB
Nickel, Total	1.37	J	mg/kg	2.26	0.218	2	10/01/21 21:25	10/04/21 16:20	EPA 3050B	1,6010D	SV
Potassium, Total	107	J	mg/kg	226	13.0	2	10/01/21 21:25	10/04/21 16:20	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.81	0.233	2	10/01/21 21:25	10/04/21 16:20	EPA 3050B	1,6010D	SV
Silver, Total	0.397	J	mg/kg	0.903	0.256	2	10/01/21 21:25	10/04/21 16:20	EPA 3050B	1,6010D	SV
Sodium, Total	90.1	J	mg/kg	181	2.84	2	10/01/21 21:25	10/04/21 16:20	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.81	0.284	2	10/01/21 21:25	10/04/21 16:20	EPA 3050B	1,6010D	SV
Vanadium, Total	2.68		mg/kg	0.903	0.183	2	10/01/21 21:25	10/04/21 16:20	EPA 3050B	1,6010D	SV
Zinc, Total	23.6		mg/kg	4.52	0.264	2	10/01/21 21:25	10/04/21 16:20	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.6		mg/kg	0.96	0.96	1		10/05/21 13:17	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-06
Client ID: EP37_ -3
Sample Location: BROOKLYN, NY
Date Collected: 09/30/21 12:50
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	463		mg/kg	10.0	2.71	2	10/01/21 21:25	10/04/21 16:24	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	5.01	0.381	2	10/01/21 21:25	10/04/21 16:24	EPA 3050B	1,6010D	SV
Arsenic, Total	0.271	J	mg/kg	1.00	0.209	2	10/01/21 21:25	10/04/21 16:24	EPA 3050B	1,6010D	SV
Barium, Total	8.60		mg/kg	1.00	0.174	2	10/01/21 21:25	10/04/21 16:24	EPA 3050B	1,6010D	SV
Beryllium, Total	0.040	J	mg/kg	0.501	0.033	2	10/01/21 21:25	10/04/21 16:24	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	1.00	0.098	2	10/01/21 21:25	10/04/21 16:24	EPA 3050B	1,6010D	SV
Calcium, Total	633		mg/kg	10.0	3.51	2	10/01/21 21:25	10/04/21 16:24	EPA 3050B	1,6010D	SV
Chromium, Total	2.50		mg/kg	1.00	0.096	2	10/01/21 21:25	10/04/21 16:24	EPA 3050B	1,6010D	SV
Cobalt, Total	0.532	J	mg/kg	2.00	0.166	2	10/01/21 21:25	10/04/21 16:24	EPA 3050B	1,6010D	SV
Copper, Total	2.09		mg/kg	1.00	0.259	2	10/01/21 21:25	10/04/21 16:24	EPA 3050B	1,6010D	SV
Iron, Total	1130		mg/kg	5.01	0.906	2	10/01/21 21:25	10/04/21 16:24	EPA 3050B	1,6010D	SV
Lead, Total	11.4		mg/kg	5.01	0.269	2	10/01/21 21:25	10/04/21 16:24	EPA 3050B	1,6010D	SV
Magnesium, Total	262		mg/kg	10.0	1.54	2	10/01/21 21:25	10/04/21 16:24	EPA 3050B	1,6010D	SV
Manganese, Total	11.7		mg/kg	1.00	0.159	2	10/01/21 21:25	10/04/21 16:24	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.090	0.059	1	10/01/21 22:16	10/02/21 17:40	EPA 7471B	1,7471B	NB
Nickel, Total	1.29	J	mg/kg	2.51	0.243	2	10/01/21 21:25	10/04/21 16:24	EPA 3050B	1,6010D	SV
Potassium, Total	110	J	mg/kg	251	14.4	2	10/01/21 21:25	10/04/21 16:24	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	2.00	0.259	2	10/01/21 21:25	10/04/21 16:24	EPA 3050B	1,6010D	SV
Silver, Total	0.592	J	mg/kg	1.00	0.284	2	10/01/21 21:25	10/04/21 16:24	EPA 3050B	1,6010D	SV
Sodium, Total	144	J	mg/kg	200	3.16	2	10/01/21 21:25	10/04/21 16:24	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	2.00	0.316	2	10/01/21 21:25	10/04/21 16:24	EPA 3050B	1,6010D	SV
Vanadium, Total	2.60		mg/kg	1.00	0.204	2	10/01/21 21:25	10/04/21 16:24	EPA 3050B	1,6010D	SV
Zinc, Total	23.3		mg/kg	5.01	0.294	2	10/01/21 21:25	10/04/21 16:24	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.5		mg/kg	1.0	1.0	1		10/05/21 13:17	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-07
Client ID: EP38_ -3
Sample Location: BROOKLYN, NY
Date Collected: 09/30/21 13:00
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	498		mg/kg	9.07	2.45	2	10/01/21 21:25	10/04/21 16:29	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.54	0.345	2	10/01/21 21:25	10/04/21 16:29	EPA 3050B	1,6010D	SV
Arsenic, Total	0.326	J	mg/kg	0.907	0.189	2	10/01/21 21:25	10/04/21 16:29	EPA 3050B	1,6010D	SV
Barium, Total	12.1		mg/kg	0.907	0.158	2	10/01/21 21:25	10/04/21 16:29	EPA 3050B	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.454	0.030	2	10/01/21 21:25	10/04/21 16:29	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.907	0.089	2	10/01/21 21:25	10/04/21 16:29	EPA 3050B	1,6010D	SV
Calcium, Total	1470		mg/kg	9.07	3.18	2	10/01/21 21:25	10/04/21 16:29	EPA 3050B	1,6010D	SV
Chromium, Total	2.56		mg/kg	0.907	0.087	2	10/01/21 21:25	10/04/21 16:29	EPA 3050B	1,6010D	SV
Cobalt, Total	0.572	J	mg/kg	1.81	0.150	2	10/01/21 21:25	10/04/21 16:29	EPA 3050B	1,6010D	SV
Copper, Total	3.08		mg/kg	0.907	0.234	2	10/01/21 21:25	10/04/21 16:29	EPA 3050B	1,6010D	SV
Iron, Total	1180		mg/kg	4.54	0.819	2	10/01/21 21:25	10/04/21 16:29	EPA 3050B	1,6010D	SV
Lead, Total	14.2		mg/kg	4.54	0.243	2	10/01/21 21:25	10/04/21 16:29	EPA 3050B	1,6010D	SV
Magnesium, Total	476		mg/kg	9.07	1.40	2	10/01/21 21:25	10/04/21 16:29	EPA 3050B	1,6010D	SV
Manganese, Total	13.0		mg/kg	0.907	0.144	2	10/01/21 21:25	10/04/21 16:29	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.087	0.056	1	10/01/21 22:16	10/02/21 17:43	EPA 7471B	1,7471B	NB
Nickel, Total	1.44	J	mg/kg	2.27	0.220	2	10/01/21 21:25	10/04/21 16:29	EPA 3050B	1,6010D	SV
Potassium, Total	107	J	mg/kg	227	13.1	2	10/01/21 21:25	10/04/21 16:29	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.81	0.234	2	10/01/21 21:25	10/04/21 16:29	EPA 3050B	1,6010D	SV
Silver, Total	0.535	J	mg/kg	0.907	0.257	2	10/01/21 21:25	10/04/21 16:29	EPA 3050B	1,6010D	SV
Sodium, Total	164	J	mg/kg	181	2.86	2	10/01/21 21:25	10/04/21 16:29	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.81	0.286	2	10/01/21 21:25	10/04/21 16:29	EPA 3050B	1,6010D	SV
Vanadium, Total	2.65		mg/kg	0.907	0.184	2	10/01/21 21:25	10/04/21 16:29	EPA 3050B	1,6010D	SV
Zinc, Total	26.7		mg/kg	4.54	0.266	2	10/01/21 21:25	10/04/21 16:29	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.6		mg/kg	0.96	0.96	1		10/05/21 13:17	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-08
Client ID: EPSW11_ -3
Sample Location: BROOKLYN, NY
Date Collected: 09/30/21 13:10
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	930		mg/kg	8.88	2.40	2	10/01/21 21:25	10/04/21 16:33	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.44	0.338	2	10/01/21 21:25	10/04/21 16:33	EPA 3050B	1,6010D	SV
Arsenic, Total	0.808	J	mg/kg	0.888	0.185	2	10/01/21 21:25	10/04/21 16:33	EPA 3050B	1,6010D	SV
Barium, Total	74.2		mg/kg	0.888	0.154	2	10/01/21 21:25	10/04/21 16:33	EPA 3050B	1,6010D	SV
Beryllium, Total	0.089	J	mg/kg	0.444	0.029	2	10/01/21 21:25	10/04/21 16:33	EPA 3050B	1,6010D	SV
Cadmium, Total	0.160	J	mg/kg	0.888	0.087	2	10/01/21 21:25	10/04/21 16:33	EPA 3050B	1,6010D	SV
Calcium, Total	5240		mg/kg	8.88	3.11	2	10/01/21 21:25	10/04/21 16:33	EPA 3050B	1,6010D	SV
Chromium, Total	4.64		mg/kg	0.888	0.085	2	10/01/21 21:25	10/04/21 16:33	EPA 3050B	1,6010D	SV
Cobalt, Total	1.04	J	mg/kg	1.78	0.147	2	10/01/21 21:25	10/04/21 16:33	EPA 3050B	1,6010D	SV
Copper, Total	5.45		mg/kg	0.888	0.229	2	10/01/21 21:25	10/04/21 16:33	EPA 3050B	1,6010D	SV
Iron, Total	3440		mg/kg	4.44	0.802	2	10/01/21 21:25	10/04/21 16:33	EPA 3050B	1,6010D	SV
Lead, Total	39.1		mg/kg	4.44	0.238	2	10/01/21 21:25	10/04/21 16:33	EPA 3050B	1,6010D	SV
Magnesium, Total	875		mg/kg	8.88	1.37	2	10/01/21 21:25	10/04/21 16:33	EPA 3050B	1,6010D	SV
Manganese, Total	32.5		mg/kg	0.888	0.141	2	10/01/21 21:25	10/04/21 16:33	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.074	0.049	1	10/01/21 22:16	10/02/21 17:53	EPA 7471B	1,7471B	NB
Nickel, Total	3.04		mg/kg	2.22	0.215	2	10/01/21 21:25	10/04/21 16:33	EPA 3050B	1,6010D	SV
Potassium, Total	146	J	mg/kg	222	12.8	2	10/01/21 21:25	10/04/21 16:33	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.78	0.229	2	10/01/21 21:25	10/04/21 16:33	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.888	0.251	2	10/01/21 21:25	10/04/21 16:33	EPA 3050B	1,6010D	SV
Sodium, Total	53.7	J	mg/kg	178	2.80	2	10/01/21 21:25	10/04/21 16:33	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.78	0.280	2	10/01/21 21:25	10/04/21 16:33	EPA 3050B	1,6010D	SV
Vanadium, Total	4.96		mg/kg	0.888	0.180	2	10/01/21 21:25	10/04/21 16:33	EPA 3050B	1,6010D	SV
Zinc, Total	73.7		mg/kg	4.44	0.260	2	10/01/21 21:25	10/04/21 16:33	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	4.6		mg/kg	0.94	0.94	1		10/05/21 13:17	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-09
Client ID: EPSW12_ -3
Sample Location: BROOKLYN, NY
Date Collected: 09/30/21 13:20
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	651		mg/kg	8.64	2.33	2	10/01/21 21:25	10/04/21 16:38	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.32	0.328	2	10/01/21 21:25	10/04/21 16:38	EPA 3050B	1,6010D	SV
Arsenic, Total	0.613	J	mg/kg	0.864	0.180	2	10/01/21 21:25	10/04/21 16:38	EPA 3050B	1,6010D	SV
Barium, Total	20.3		mg/kg	0.864	0.150	2	10/01/21 21:25	10/04/21 16:38	EPA 3050B	1,6010D	SV
Beryllium, Total	0.035	J	mg/kg	0.432	0.029	2	10/01/21 21:25	10/04/21 16:38	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.864	0.085	2	10/01/21 21:25	10/04/21 16:38	EPA 3050B	1,6010D	SV
Calcium, Total	2900		mg/kg	8.64	3.02	2	10/01/21 21:25	10/04/21 16:38	EPA 3050B	1,6010D	SV
Chromium, Total	3.17		mg/kg	0.864	0.083	2	10/01/21 21:25	10/04/21 16:38	EPA 3050B	1,6010D	SV
Cobalt, Total	0.768	J	mg/kg	1.73	0.143	2	10/01/21 21:25	10/04/21 16:38	EPA 3050B	1,6010D	SV
Copper, Total	2.46		mg/kg	0.864	0.223	2	10/01/21 21:25	10/04/21 16:38	EPA 3050B	1,6010D	SV
Iron, Total	1710		mg/kg	4.32	0.780	2	10/01/21 21:25	10/04/21 16:38	EPA 3050B	1,6010D	SV
Lead, Total	19.6		mg/kg	4.32	0.231	2	10/01/21 21:25	10/04/21 16:38	EPA 3050B	1,6010D	SV
Magnesium, Total	398		mg/kg	8.64	1.33	2	10/01/21 21:25	10/04/21 16:38	EPA 3050B	1,6010D	SV
Manganese, Total	18.0		mg/kg	0.864	0.137	2	10/01/21 21:25	10/04/21 16:38	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.072	0.047	1	10/01/21 22:16	10/02/21 17:56	EPA 7471B	1,7471B	NB
Nickel, Total	2.79		mg/kg	2.16	0.209	2	10/01/21 21:25	10/04/21 16:38	EPA 3050B	1,6010D	SV
Potassium, Total	128	J	mg/kg	216	12.4	2	10/01/21 21:25	10/04/21 16:38	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.73	0.223	2	10/01/21 21:25	10/04/21 16:38	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.864	0.244	2	10/01/21 21:25	10/04/21 16:38	EPA 3050B	1,6010D	SV
Sodium, Total	22.2	J	mg/kg	173	2.72	2	10/01/21 21:25	10/04/21 16:38	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.73	0.272	2	10/01/21 21:25	10/04/21 16:38	EPA 3050B	1,6010D	SV
Vanadium, Total	3.72		mg/kg	0.864	0.175	2	10/01/21 21:25	10/04/21 16:38	EPA 3050B	1,6010D	SV
Zinc, Total	35.6		mg/kg	4.32	0.253	2	10/01/21 21:25	10/04/21 16:38	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	3.2		mg/kg	0.92	0.92	1		10/05/21 13:17	NA	107,-	

Project Name: 1607 SURF AVENUE **Lab Number:** L2153255

Project Number: 170599501 **Report Date:** 10/06/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-09 Batch: WG1553535-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	10/01/21 21:25	10/04/21 15:02	1,6010D	SV
Antimony, Total	ND		mg/kg	2.00	0.152	1	10/01/21 21:25	10/04/21 15:02	1,6010D	SV
Arsenic, Total	ND		mg/kg	0.400	0.083	1	10/01/21 21:25	10/04/21 15:02	1,6010D	SV
Barium, Total	ND		mg/kg	0.400	0.070	1	10/01/21 21:25	10/04/21 15:02	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.200	0.013	1	10/01/21 21:25	10/04/21 15:02	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.400	0.039	1	10/01/21 21:25	10/04/21 15:02	1,6010D	SV
Calcium, Total	ND		mg/kg	4.00	1.40	1	10/01/21 21:25	10/04/21 15:02	1,6010D	SV
Chromium, Total	ND		mg/kg	0.400	0.038	1	10/01/21 21:25	10/04/21 15:02	1,6010D	SV
Cobalt, Total	ND		mg/kg	0.800	0.066	1	10/01/21 21:25	10/04/21 15:02	1,6010D	SV
Copper, Total	ND		mg/kg	0.400	0.103	1	10/01/21 21:25	10/04/21 15:02	1,6010D	SV
Iron, Total	ND		mg/kg	2.00	0.361	1	10/01/21 21:25	10/04/21 15:02	1,6010D	SV
Lead, Total	ND		mg/kg	2.00	0.107	1	10/01/21 21:25	10/04/21 15:02	1,6010D	SV
Magnesium, Total	ND		mg/kg	4.00	0.616	1	10/01/21 21:25	10/04/21 15:02	1,6010D	SV
Manganese, Total	ND		mg/kg	0.400	0.064	1	10/01/21 21:25	10/04/21 15:02	1,6010D	SV
Nickel, Total	ND		mg/kg	1.00	0.097	1	10/01/21 21:25	10/04/21 15:02	1,6010D	SV
Potassium, Total	ND		mg/kg	100	5.76	1	10/01/21 21:25	10/04/21 15:02	1,6010D	SV
Selenium, Total	ND		mg/kg	0.800	0.103	1	10/01/21 21:25	10/04/21 15:02	1,6010D	SV
Silver, Total	ND		mg/kg	0.400	0.113	1	10/01/21 21:25	10/04/21 15:02	1,6010D	SV
Sodium, Total	ND		mg/kg	80.0	1.26	1	10/01/21 21:25	10/04/21 15:02	1,6010D	SV
Thallium, Total	ND		mg/kg	0.800	0.126	1	10/01/21 21:25	10/04/21 15:02	1,6010D	SV
Vanadium, Total	ND		mg/kg	0.400	0.081	1	10/01/21 21:25	10/04/21 15:02	1,6010D	SV
Zinc, Total	ND		mg/kg	2.00	0.117	1	10/01/21 21:25	10/04/21 15:02	1,6010D	SV

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-09 Batch: WG1553536-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/01/21 22:16	10/02/21 16:50	1,7471B	NB

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153255

Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-09 Batch: WG1553535-2 SRM Lot Number: D109-540								
Aluminum, Total	56		-		50-150	-		
Antimony, Total	103		-		19-250	-		
Arsenic, Total	88		-		70-130	-		
Barium, Total	85		-		75-125	-		
Beryllium, Total	79		-		75-125	-		
Cadmium, Total	83		-		75-125	-		
Calcium, Total	80		-		73-128	-		
Chromium, Total	84		-		70-130	-		
Cobalt, Total	85		-		75-125	-		
Copper, Total	85		-		75-125	-		
Iron, Total	79		-		35-165	-		
Lead, Total	85		-		72-128	-		
Magnesium, Total	72		-		62-138	-		
Manganese, Total	84		-		74-126	-		
Nickel, Total	83		-		70-130	-		
Potassium, Total	72		-		59-141	-		
Selenium, Total	85		-		68-132	-		
Silver, Total	89		-		68-131	-		
Sodium, Total	92		-		35-165	-		
Thallium, Total	85		-		68-131	-		
Vanadium, Total	86		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153255

Report Date: 10/06/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-09 Batch: WG1553535-2 SRM Lot Number: D109-540					
Zinc, Total	85	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-09 Batch: WG1553536-2 SRM Lot Number: D109-540					
Mercury, Total	86	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1553535-3 WG1553535-4 QC Sample: L2153255-03 Client ID: EP28_ -3												
Aluminum, Total	533	169	785	**149**	Q	811	**166**	Q	75-125	3		20
Antimony, Total	ND	42.3	37.8	89		37.3	89		75-125	1		20
Arsenic, Total	0.327J	10.2	8.85	87		9.00	89		75-125	2		20
Barium, Total	10.3	169	176	98		171	96		75-125	3		20
Beryllium, Total	ND	4.23	3.98	94		3.95	94		75-125	1		20
Cadmium, Total	0.084J	4.48	4.43	99		4.32	97		75-125	3		20
Calcium, Total	891	846	1700	96		5650	**567**	Q	75-125	**107**	Q	20
Chromium, Total	2.84	16.9	19.9	101		20.2	103		75-125	1		20
Cobalt, Total	0.562J	42.3	40.7	96		39.7	95		75-125	2		20
Copper, Total	2.57	21.1	23.7	100		23.7	101		75-125	0		20
Iron, Total	1260	84.6	1450	**225**	Q	1590	**393**	Q	75-125	9		20
Lead, Total	12.6	44.8	57.1	99		56.7	99		75-125	1		20
Magnesium, Total	299	846	1140	99		3330	**361**	Q	75-125	**98**	Q	20
Manganese, Total	13.4	42.3	52.9	93		55.7	101		75-125	5		20
Nickel, Total	1.43J	42.3	39.9	94		42.9	102		75-125	7		20
Potassium, Total	107J	846	933	110		932	111		75-125	0		20
Selenium, Total	ND	10.2	8.19	81		8.01	80		75-125	2		20
Silver, Total	0.562J	25.4	25.9	102		26.1	104		75-125	1		20
Sodium, Total	18.5J	846	849	100		853	102		75-125	0		20
Thallium, Total	ND	10.2	8.95	88		8.66	86		75-125	3		20
Vanadium, Total	2.90	42.3	45.7	101		45.4	101		75-125	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1553535-3 WG1553535-4 QC Sample: L2153255-03 Client ID: EP28_ -3									
Zinc, Total	25.6	42.3	70.0	105	67.6	100	75-125	3	20
Total Metals - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1553536-3 WG1553536-4 QC Sample: L2153255-03 Client ID: EP28_ -3									
Mercury, Total	ND	0.139	0.159	114	0.169	117	80-120	6	20

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2153255
Report Date: 10/06/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1553535-6 QC Sample: L2153255-03 Client ID: EP28_ -3						
Aluminum, Total	533	477	mg/kg	11		20
Calcium, Total	891	808	mg/kg	9		20
Iron, Total	1260	1140	mg/kg	10		20
Magnesium, Total	299	280	mg/kg	6		20

INORGANICS
&
MISCELLANEOUS

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-01
Client ID: EP21_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 12:00
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.0		%	0.100	NA	1	-	10/02/21 09:15	121,2540G	RI
Cyanide, Total	0.60	J	mg/kg	1.2	0.25	1	10/04/21 16:00	10/05/21 11:48	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	0.976	0.195	1	10/04/21 11:43	10/05/21 13:17	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-02
Client ID: EP22_ -3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 09/30/21 12:10
Date Received: 09/30/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.0		%	0.100	NA	1	-	10/02/21 09:15	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	10/05/21 12:00	10/05/21 14:26	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	0.964	0.193	1	10/04/21 11:43	10/05/21 13:17	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-03
Client ID: EP28_ -3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 09/30/21 12:20
Date Received: 09/30/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.9		%	0.100	NA	1	-	10/02/21 09:15	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.21	1	10/05/21 12:00	10/05/21 14:27	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	0.852	0.170	1	10/04/21 11:43	10/05/21 13:17	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-04
Client ID: EP29_ -3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 09/30/21 12:30
Date Received: 09/30/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.8		%	0.100	NA	1	-	10/02/21 09:15	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	10/05/21 12:00	10/05/21 14:32	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	0.990	0.198	1	10/04/21 11:43	10/05/21 13:17	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-05
Client ID: EP30_ -3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 09/30/21 12:40
Date Received: 09/30/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.7		%	0.100	NA	1	-	10/02/21 09:15	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	10/05/21 12:00	10/05/21 14:33	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	0.956	0.191	1	10/04/21 11:43	10/05/21 13:17	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-06
Client ID: EP37_ -3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 09/30/21 12:50
Date Received: 09/30/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.9		%	0.100	NA	1	-	10/02/21 09:15	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	10/05/21 12:00	10/05/21 14:34	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	1.03	0.205	1	10/04/21 11:43	10/05/21 13:17	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-07
Client ID: EP38_ -3
Sample Location: BROOKLYN, NY

Date Collected: 09/30/21 13:00
Date Received: 09/30/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.7		%	0.100	NA	1	-	10/02/21 09:15	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	10/05/21 12:00	10/05/21 14:35	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	0.956	0.191	1	10/04/21 11:43	10/05/21 13:17	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-08
Client ID: EPSW11_ -3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 09/30/21 13:10
Date Received: 09/30/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.1		%	0.100	NA	1	-	10/02/21 09:15	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	10/05/21 12:00	10/05/21 14:36	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	0.940	0.188	1	10/04/21 11:43	10/05/21 13:17	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

SAMPLE RESULTS

Lab ID: L2153255-09
Client ID: EPSW12_ -3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 09/30/21 13:20
Date Received: 09/30/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	10/02/21 09:15	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	10/05/21 12:00	10/05/21 14:37	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	0.917	0.183	1	10/04/21 11:43	10/05/21 13:17	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-09 Batch: WG1553999-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	10/04/21 11:43	10/05/21 13:17	1,7196A	NL
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1554165-1										
Cyanide, Total	ND		mg/kg	0.89	0.19	1	10/04/21 16:00	10/05/21 11:21	1,9010C/9012B	CR
General Chemistry - Westborough Lab for sample(s): 02-09 Batch: WG1554593-1										
Cyanide, Total	ND		mg/kg	0.94	0.20	1	10/05/21 12:00	10/05/21 14:20	1,9010C/9012B	CR

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153255

Report Date: 10/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-09 Batch: WG1553999-2								
Chromium, Hexavalent	86		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1554165-2 WG1554165-3								
Cyanide, Total	**74**	Q	**76**	Q	80-120	2		35
General Chemistry - Westborough Lab Associated sample(s): 02-09 Batch: WG1554593-2 WG1554593-3								
Cyanide, Total	**48**		**64**		80-120	21		35

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1553999-4 WG1553999-5 QC Sample: L2153255-03 Client ID: EP28_ -3												
Chromium, Hexavalent	ND	866	854	99		768	90		75-125	11		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1554165-4 WG1554165-5 QC Sample: L2151355-03 Client ID: MS Sample												
Cyanide, Total	ND	11	12	100		12	100		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG1554593-4 WG1554593-5 QC Sample: L2153255-03 Client ID: EP28_ -3												
Cyanide, Total	ND	10	9.5	90		9.8	94		75-125	3		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1553599-1 QC Sample: L2153255-03 Client ID: EP28_ -3						
Solids, Total	93.9	94.2	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1553999-7 QC Sample: L2153255-03 Client ID: EP28_ -3						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent
D	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2153255-01A	Vial MeOH preserved	D	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2153255-01B	Vial water preserved	D	NA		3.4	Y	Absent	01-OCT-21 14:05	NYTCL-8260HLW(14)
L2153255-01C	Vial water preserved	D	NA		3.4	Y	Absent	01-OCT-21 14:05	NYTCL-8260HLW(14)
L2153255-01D	Plastic 2oz unpreserved for TS	D	NA		3.4	Y	Absent		TS(7)
L2153255-01D1	Plastic 2oz unpreserved for TS	D	NA		3.4	Y	Absent		TS(7)
L2153255-01E	Plastic 8oz unpreserved	D	NA		3.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2153255-01F	Metals Only-Glass 60mL/2oz unpreserved	D	NA		3.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2153255-01G	Glass 120ml/4oz unpreserved	D	NA		3.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2153255-01H	Glass 500ml/16oz unpreserved	D	NA		3.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2153255-02A	Vial MeOH preserved	C	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L2153255-02B	Vial water preserved	C	NA		4.6	Y	Absent	01-OCT-21 14:05	NYTCL-8260HLW(14)
L2153255-02C	Vial water preserved	C	NA		4.6	Y	Absent	01-OCT-21 14:05	NYTCL-8260HLW(14)
L2153255-02D	Plastic 2oz unpreserved for TS	C	NA		4.6	Y	Absent		TS(7)
L2153255-02D1	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2153255-02E	Plastic 8oz unpreserved	B	NA		2.5	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2153255-02F	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MG-TI(180),HG-T(28),MN-TI(180),FE-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2153255-02G	Glass 120ml/4oz unpreserved	C	NA		4.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2153255-02H	Glass 500ml/16oz unpreserved	C	NA		4.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2153255-03A	1 Vial MeOH/2 Vial Water	C	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L2153255-03A1	Vial MeOH preserved	C	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L2153255-03A2	Vial MeOH preserved	C	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L2153255-03B	1 Vial MeOH/2 Vial Water	C	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L2153255-03B1	Vial water preserved	C	NA		4.6	Y	Absent	01-OCT-21 14:05	NYTCL-8260HLW(14)
L2153255-03B2	Vial water preserved	C	NA		4.6	Y	Absent	01-OCT-21 14:05	NYTCL-8260HLW(14)
L2153255-03C	1 Vial MeOH/2 Vial Water	C	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L2153255-03C1	Vial water preserved	C	NA		4.6	Y	Absent	01-OCT-21 14:05	NYTCL-8260HLW(14)
L2153255-03C2	Vial water preserved	C	NA		4.6	Y	Absent	01-OCT-21 14:05	NYTCL-8260HLW(14)
L2153255-03D	Plastic 2oz unpreserved for TS	C	NA		4.6	Y	Absent		TS(7)
L2153255-03D1	Plastic 2oz unpreserved for TS	C	NA		4.6	Y	Absent		TS(7)
L2153255-03D2	Plastic 2oz unpreserved for TS	C	NA		4.6	Y	Absent		TS(7)
L2153255-03D3	Plastic 2oz unpreserved for TS	C	NA		4.6	Y	Absent		TS(7)
L2153255-03D4	Plastic 2oz unpreserved for TS	C	NA		4.6	Y	Absent		TS(7)
L2153255-03D5	Plastic 2oz unpreserved for TS	C	NA		4.6	Y	Absent		TS(7)
L2153255-03E	Plastic 8oz unpreserved	C	NA		4.6	Y	Absent		A2-NY-537-ISOTOPE(14)
L2153255-03E1	Plastic 8oz unpreserved	C	NA		4.6	Y	Absent		A2-NY-537-ISOTOPE(14)
L2153255-03E2	Plastic 8oz unpreserved	C	NA		4.6	Y	Absent		A2-NY-537-ISOTOPE(14)
L2153255-03F	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),PB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CD-TI(180),CA-TI(180),NA-TI(180),K-TI(180)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2153255-03F1	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),PB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CD-TI(180),CA-TI(180),NA-TI(180),K-TI(180)
L2153255-03F2	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),PB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CD-TI(180),CA-TI(180),NA-TI(180),K-TI(180)
L2153255-03G	Glass 250ml/8oz unpreserved	C	NA		4.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2153255-03G1	Glass 120ml/4oz unpreserved	C	NA		4.6	Y	Absent		TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2153255-03G2	Glass 120ml/4oz unpreserved	C	NA		4.6	Y	Absent		TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2153255-03H	Glass 250ml/8oz unpreserved	C	NA		4.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2153255-03H1	Glass 500ml/16oz unpreserved	C	NA		4.6	Y	Absent		TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2153255-03H2	Glass 500ml/16oz unpreserved	C	NA		4.6	Y	Absent		TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2153255-04A	Vial MeOH preserved	C	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L2153255-04B	Vial water preserved	C	NA		4.6	Y	Absent	01-OCT-21 14:05	NYTCL-8260HLW(14)
L2153255-04C	Vial water preserved	C	NA		4.6	Y	Absent	01-OCT-21 14:05	NYTCL-8260HLW(14)
L2153255-04D	Plastic 2oz unpreserved for TS	C	NA		4.6	Y	Absent		TS(7)
L2153255-04D1	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2153255-04E	Plastic 8oz unpreserved	B	NA		2.5	Y	Absent		A2-NY-537-ISOTOPE(14)
L2153255-04F	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MN-TI(180),HG-T(28),MG-TI(180),FE-TI(180),CD-TI(180),NA-TI(180),K-TI(180),CA-TI(180)
L2153255-04G	Glass 120ml/4oz unpreserved	C	NA		4.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2153255-04H	Glass 500ml/16oz unpreserved	C	NA		4.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2153255-05A	Vial MeOH preserved	C	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L2153255-05B	Vial water preserved	C	NA		4.6	Y	Absent	01-OCT-21 14:05	NYTCL-8260HLW(14)
L2153255-05C	Vial water preserved	C	NA		4.6	Y	Absent	01-OCT-21 14:05	NYTCL-8260HLW(14)
L2153255-05D	Plastic 2oz unpreserved for TS	C	NA		4.6	Y	Absent		TS(7)
L2153255-05D1	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2153255-05E	Plastic 8oz unpreserved	B	NA		2.5	Y	Absent		A2-NY-537-ISOTOPE(14)
L2153255-05F	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),PB-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),K-TI(180),CD-TI(180),NA-TI(180),CA-TI(180)
L2153255-05G	Glass 120ml/4oz unpreserved	C	NA		4.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2153255-05H	Glass 500ml/16oz unpreserved	C	NA		4.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2153255-06A	Vial MeOH preserved	D	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2153255-06B	Vial water preserved	D	NA		3.4	Y	Absent	01-OCT-21 14:05	NYTCL-8260HLW(14)
L2153255-06C	Vial water preserved	D	NA		3.4	Y	Absent	01-OCT-21 14:05	NYTCL-8260HLW(14)
L2153255-06D	Plastic 2oz unpreserved for TS	D	NA		3.4	Y	Absent		TS(7)
L2153255-06D1	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2153255-06E	Plastic 8oz unpreserved	B	NA		2.5	Y	Absent		A2-NY-537-ISOTOPE(14)
L2153255-06F	Metals Only-Glass 60mL/2oz unpreserved	D	NA		3.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),SE-TI(180),SB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2153255-06G	Glass 120ml/4oz unpreserved	D	NA		3.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2153255-06H	Glass 500ml/16oz unpreserved	D	NA		3.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2153255-07A	Vial MeOH preserved	D	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2153255-07B	Vial water preserved	D	NA		3.4	Y	Absent	01-OCT-21 14:05	NYTCL-8260HLW(14)
L2153255-07C	Vial water preserved	D	NA		3.4	Y	Absent	01-OCT-21 14:05	NYTCL-8260HLW(14)
L2153255-07D	Plastic 2oz unpreserved for TS	D	NA		3.4	Y	Absent		TS(7)
L2153255-07D1	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2153255-07E	Plastic 8oz unpreserved	B	NA		2.5	Y	Absent		A2-NY-537-ISOTOPE(14)
L2153255-07F	Metals Only-Glass 60mL/2oz unpreserved	D	NA		3.4	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2153255-07G	Glass 120ml/4oz unpreserved	D	NA		3.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2153255-07H	Glass 500ml/16oz unpreserved	D	NA		3.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2153255-08A	Vial MeOH preserved	D	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2153255-08B	Vial water preserved	D	NA		3.4	Y	Absent	01-OCT-21 14:05	NYTCL-8260HLW(14)
L2153255-08C	Vial water preserved	D	NA		3.4	Y	Absent	01-OCT-21 14:05	NYTCL-8260HLW(14)
L2153255-08D	Plastic 2oz unpreserved for TS	D	NA		3.4	Y	Absent		TS(7)
L2153255-08D1	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2153255-08E	Plastic 8oz unpreserved	B	NA		2.5	Y	Absent		A2-NY-537-ISOTOPE(14)
L2153255-08F	Metals Only-Glass 60mL/2oz unpreserved	D	NA		3.4	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),PB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),MG-TI(180),HG-T(28),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2153255-08G	Glass 120ml/4oz unpreserved	D	NA		3.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2153255-08H	Glass 500ml/16oz unpreserved	D	NA		3.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2153255-09A	Vial MeOH preserved	D	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2153255-09B	Vial water preserved	D	NA		3.4	Y	Absent	01-OCT-21 14:05	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153255
Report Date: 10/06/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2153255-09C	Vial water preserved	D	NA		3.4	Y	Absent	01-OCT-21 14:05	NYTCL-8260HLW(14)
L2153255-09D	Plastic 2oz unpreserved for TS	D	NA		3.4	Y	Absent		TS(7)
L2153255-09D1	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2153255-09E	Plastic 8oz unpreserved	B	NA		2.5	Y	Absent		A2-NY-537-ISOTOPE(14)
L2153255-09F	Metals Only-Glass 60mL/2oz unpreserved	D	NA		3.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2153255-09G	Glass 120ml/4oz unpreserved	D	NA		3.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2153255-09H	Glass 500ml/16oz unpreserved	D	NA		3.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2153255
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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:	1607 SURF AVENUE	**Lab Number:**	L2153255
Project Number:	170599501	**Report Date:**	10/06/21

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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2153255
Project Number:	170599501	**Report Date:**	10/06/21

Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153255
Report Date: 10/06/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

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, SM4500Cl-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, **LACHAT 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

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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 1

Date Rec'd in Lab: 10/1/21

ALPHA Job #: L2153255

Client Information
Client: LANGAN
Address: 360 W 31st Street 8th Floor, NYC, NY
Phone: 212 479 5400
Fax: 212 479 5444
Email: ~~JFrisenda@langan.com~~

Project Information
Project Name: 1607 Surf Avenue
Project Location: Brooklyn, NY
Project #: 170599501
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☒
Rush (only if pre approved) ☐
Due Date: All Analyses to be submitted on a 5-day TAT including PFAS
# of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ 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:
CC: LeSmail@langan.com; KSemon@langan; Datamanagement@langan.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs, SVOCs	TCL Pesticides	TAL metals	TCN	Hex/T Chromium	PFAS	1,4-dioxane	Herbs, PCBs	Sample Specific Comments	Total Bottle
53255-01	EP21_-3	09/30	12:00	S	AR										
-02	EP22_-3	09/30	12:10												
-03	EP28_-3		12:20											Run as MS/MSD	
-04	EP29_-3		12:30												
-05	EP30_-3		12:40												
-06	EP37_-3		12:50												
-07	EP38_-3		13:00												
-08	EPSW11_-3		13:10												
-09	EPSW12_-3		13:20												

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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	
Preservative	

Relinquished By:	Date/Time	Received By:	Date/Time
Mi Kouch Agilent	09/30/21 16:45		
[illegible] Emp-AAL	9/30/21 19:35	[illegible] AAL	9/30/21 16:45
DE & AAL	9/30	DE & AAL	9/30 2000
		[illegible] AAL	9/30/21 23:00
		[illegible]	10/1/21 02:15

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2153655
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Kimberly Semon
Phone:	(212) 479-5486
Project Name:	1607 SURF AVENUE
Project Number:	170599501
Report Date:	10/07/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2153655-01	EP36_ -3	SOIL	BROOKLYN, NY	10/01/21 14:00	10/01/21
L2153655-02	EP44_ -3	SOIL	BROOKLYN, NY	10/01/21 14:10	10/01/21
L2153655-03	EP45_ -3	SOIL	BROOKLYN, NY	10/01/21 14:20	10/01/21
L2153655-04	DUP01_100121	SOIL	BROOKLYN, NY	10/01/21 00:00	10/01/21
L2153655-05	DUP02_100121	SOIL	BROOKLYN, NY	10/01/21 00:00	10/01/21
L2153655-06	FIELD BLANK	WATER	BROOKLYN, NY	10/01/21 00:00	10/01/21

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2153655
Project Number:	170599501	**Report Date:**	10/07/21

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: 1607 SURF AVENUE **Lab Number:** L2153655
Project Number: 170599501 **Report Date:** 10/07/21

Case Narrative (continued)

Report Submission
October 07, 2021: This final report includes the results of all requested analyses.
October 07, 2021: This is a preliminary report.

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

Sample Receipt
L2153655-06: A sample identified as "FIELD BLANK" was received, but not listed on the Chain of Custody. At the client's request, this sample was not analyzed.

Perfluorinated Alkyl Acids by Isotope Dilution
L2153655-02 and -05: The MeOH fraction of the extraction is reported for Perfluorooctanesulfonamide (FOSA) due to better extraction efficiency of the M8FOSA Surrogate (Extracted Internal Standard).
The Extracted Internal Standard recovery for the WG1553947-1 Method Blank, associated with L2153655-01 through -05, is below the acceptance criteria for perfluoro[13c8]octanesulfonamide (m8fosa) (less than 10%); however, all associated samples are non-detect for perfluorooctanesulfonamide (fosa).
WG1553947-2: The Extracted Internal Standard recovery is below the acceptance criteria for perfluoro[13c8]octanesulfonamide (m8fosa) (less than 10%); however, all associated target analytes are within criteria.

Total Metals
L2153655-01 through -05: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.
The WG1554177-1 Method Blank, associated with L2153655-01 through -05, has concentrations above the reporting limits for aluminum and iron. Since the associated sample concentrations are either greater than 10x the blank concentrations or non-detect to the RL for these target analytes, no corrective action is required. Any

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2153655
Project Number:	170599501	**Report Date:**	10/07/21

Case Narrative (continued)

results detected below the reporting limits are qualified with a "B".

Cyanide, Total

The WG1555209-2/-3 LCS/LCSD recoveries for cyanide, total (56%/66%), associated with L2153655-01 through -05, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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: Kelly Stenstrom

Title: Technical Director/Representative Date: 10/07/21

ORGANICS

VOLATILES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-01
Client ID: EP36_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 14:00
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/06/21 19:39
Analyst: JC
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.2	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.9	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.16	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	ND		ug/kg	0.62	0.24	1
Chlorobenzene	ND		ug/kg	0.62	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.86	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	0.21	1
Bromodichloromethane	ND		ug/kg	0.62	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.62	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.62	0.20	1
Bromoform	ND		ug/kg	5.0	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	0.21	1
Benzene	ND		ug/kg	0.62	0.21	1
Toluene	ND		ug/kg	1.2	0.68	1
Ethylbenzene	ND		ug/kg	1.2	0.18	1
Chloromethane	ND		ug/kg	5.0	1.2	1
Bromomethane	ND		ug/kg	2.5	0.72	1
Vinyl chloride	ND		ug/kg	1.2	0.42	1
Chloroethane	ND		ug/kg	2.5	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-01 Date Collected: 10/01/21 14:00

Client ID: EP36_ -3 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.62	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.70	1
o-Xylene	0.83	J	ug/kg	1.2	0.36	1
Xylenes, Total	0.83	J	ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.5	0.30	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	6.0	1
Carbon disulfide	ND		ug/kg	12	5.7	1
2-Butanone	ND		ug/kg	12	2.8	1
Vinyl acetate	ND		ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	12	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.35	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.62	0.16	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.21	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.15	1
o-Chlorotoluene	ND		ug/kg	2.5	0.24	1
p-Chlorotoluene	ND		ug/kg	2.5	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.14	1
Naphthalene	ND		ug/kg	5.0	0.81	1
Acrylonitrile	ND		ug/kg	5.0	1.4	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-01 Date Collected: 10/01/21 14:00

Client ID: EP36_ -3 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1
1,4-Dioxane	ND		ug/kg	100	44.	1
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1
p-Ethyltoluene	ND		ug/kg	2.5	0.48	1
1,2,4,5-Tetramethylbenzene	0.85	J	ug/kg	2.5	0.24	1
Ethyl ether	ND		ug/kg	2.5	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	104		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-02
Client ID: EP44_ -3
Sample Location: BROOKLYN, NY
Date Collected: 10/01/21 14:10
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/06/21 20:04
Analyst: JC
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.19	1
Benzene	ND		ug/kg	0.56	0.19	1
Toluene	ND		ug/kg	1.1	0.61	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.3	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-02 Date Collected: 10/01/21 14:10

Client ID: EP44_ -3 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.63	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.3	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.3	0.13	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.5	0.73	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-02 Date Collected: 10/01/21 14:10

Client ID: EP44_ -3 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	90	40.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.43	1
1,2,4,5-Tetramethylbenzene	0.76	J	ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	105		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-03
Client ID: EP45_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 14:20
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/05/21 13:29
Analyst: JC
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.7	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.20	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.3	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.17	1
Dibromochloromethane	ND		ug/kg	1.3	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.36	1
Tetrachloroethene	ND		ug/kg	0.67	0.26	1
Chlorobenzene	ND		ug/kg	0.67	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.94	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.67	0.22	1
Bromodichloromethane	ND		ug/kg	0.67	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.67	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.67	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.67	0.21	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.67	0.22	1
Benzene	ND		ug/kg	0.67	0.22	1
Toluene	ND		ug/kg	1.3	0.73	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	5.4	1.2	1
Bromomethane	ND		ug/kg	2.7	0.78	1
Vinyl chloride	ND		ug/kg	1.3	0.45	1
Chloroethane	ND		ug/kg	2.7	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-03 Date Collected: 10/01/21 14:20

Client ID: EP45_ -3 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.67	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.75	1
o-Xylene	ND		ug/kg	1.3	0.39	1
Xylenes, Total	ND		ug/kg	1.3	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.24	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.7	0.32	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.5	1
Carbon disulfide	ND		ug/kg	13	6.1	1
2-Butanone	ND		ug/kg	13	3.0	1
Vinyl acetate	ND		ug/kg	13	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	0.17	1
2-Hexanone	ND		ug/kg	13	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.38	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.67	0.18	1
Bromobenzene	ND		ug/kg	2.7	0.20	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.20	1
tert-Butylbenzene	ND		ug/kg	2.7	0.16	1
o-Chlorotoluene	ND		ug/kg	2.7	0.26	1
p-Chlorotoluene	ND		ug/kg	2.7	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.23	1
Isopropylbenzene	ND		ug/kg	1.3	0.15	1
p-Isopropyltoluene	0.35	J	ug/kg	1.3	0.15	1
Naphthalene	ND		ug/kg	5.4	0.87	1
Acrylonitrile	ND		ug/kg	5.4	1.5	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-03 Date Collected: 10/01/21 14:20

Client ID: EP45_ -3 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.43	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
1,4-Dioxane	ND		ug/kg	110	47.	1
p-Diethylbenzene	ND		ug/kg	2.7	0.24	1
p-Ethyltoluene	ND		ug/kg	2.7	0.52	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.7	0.26	1
Ethyl ether	ND		ug/kg	2.7	0.46	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.7	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	93		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-04
Client ID: DUP01_100121
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 00:00
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/05/21 13:54
Analyst: JC
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.5	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.65	0.25	1
Chlorobenzene	ND		ug/kg	0.65	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.90	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.65	0.22	1
Bromodichloromethane	ND		ug/kg	0.65	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.65	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.65	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.65	0.20	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.65	0.21	1
Benzene	ND		ug/kg	0.65	0.21	1
Toluene	ND		ug/kg	1.3	0.70	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.2	1.2	1
Bromomethane	ND		ug/kg	2.6	0.75	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.18	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-04 Date Collected: 10/01/21 00:00

Client ID: DUP01_100121 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.65	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.72	1
o-Xylene	ND		ug/kg	1.3	0.38	1
Xylenes, Total	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.31	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.2	1
Carbon disulfide	ND		ug/kg	13	5.9	1
2-Butanone	ND		ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.65	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.2	0.84	1
Acrylonitrile	ND		ug/kg	5.2	1.5	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-04 Date Collected: 10/01/21 00:00

Client ID: DUP01_100121 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
1,4-Dioxane	ND		ug/kg	100	45.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.50	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.25	1
Ethyl ether	ND		ug/kg	2.6	0.44	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.5	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	90		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-05
Client ID: DUP02_100121
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 00:00
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/06/21 20:28
Analyst: JC
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.55	0.22	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.55	0.18	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-05 Date Collected: 10/01/21 00:00

Client ID: DUP02_100121 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.72	1
Acrylonitrile	ND		ug/kg	4.4	1.3	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-05 Date Collected: 10/01/21 00:00

Client ID: DUP02_100121 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	88	39.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	105		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/05/21 07:07
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-04 Batch: WG1554497-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/05/21 07:07
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-04 Batch: WG1554497-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/05/21 07:07
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-04 Batch: WG1554497-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	0.32	J	ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	93		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/06/21 19:14
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02,05 Batch: WG1555578-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/06/21 19:14
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02,05 Batch: WG1555578-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	0.69	J	ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/06/21 19:14
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02,05 Batch: WG1555578-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	0.71	J	ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153655

Report Date: 10/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03-04 Batch: WG1554497-3 WG1554497-4								
Methylene chloride	82		79		70-130	4		30
1,1-Dichloroethane	102		98		70-130	4		30
Chloroform	83		78		70-130	6		30
Carbon tetrachloride	87		81		70-130	7		30
1,2-Dichloropropane	105		101		70-130	4		30
Dibromochloromethane	99		95		70-130	4		30
1,1,2-Trichloroethane	96		93		70-130	3		30
Tetrachloroethene	97		91		70-130	6		30
Chlorobenzene	94		88		70-130	7		30
Trichlorofluoromethane	81		74		70-139	9		30
1,2-Dichloroethane	93		91		70-130	2		30
1,1,1-Trichloroethane	87		81		70-130	7		30
Bromodichloromethane	85		82		70-130	4		30
trans-1,3-Dichloropropene	96		94		70-130	2		30
cis-1,3-Dichloropropene	94		90		70-130	4		30
1,1-Dichloropropene	95		89		70-130	7		30
Bromoform	102		100		70-130	2		30
1,1,2,2-Tetrachloroethane	99		97		70-130	2		30
Benzene	88		83		70-130	6		30
Toluene	93		87		70-130	7		30
Ethylbenzene	93		88		70-130	6		30
Chloromethane	111		104		52-130	7		30
Bromomethane	63		60		57-147	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03-04 Batch: WG1554497-3 WG1554497-4								
Vinyl chloride	92		85		67-130	8		30
Chloroethane	83		78		50-151	6		30
1,1-Dichloroethene	90		83		65-135	8		30
trans-1,2-Dichloroethene	90		83		70-130	8		30
Trichloroethene	87		83		70-130	5		30
1,2-Dichlorobenzene	103		100		70-130	3		30
1,3-Dichlorobenzene	104		100		70-130	4		30
1,4-Dichlorobenzene	101		98		70-130	3		30
Methyl tert butyl ether	78		76		66-130	3		30
p/m-Xylene	96		91		70-130	5		30
o-Xylene	95		90		70-130	5		30
cis-1,2-Dichloroethene	88		83		70-130	6		30
Dibromomethane	88		86		70-130	2		30
Styrene	95		90		70-130	5		30
Dichlorodifluoromethane	76		69		30-146	10		30
Acetone	95		91		54-140	4		30
Carbon disulfide	75		69		59-130	8		30
2-Butanone	83		76		70-130	9		30
Vinyl acetate	101		98		70-130	3		30
4-Methyl-2-pentanone	114		115		70-130	1		30
1,2,3-Trichloropropane	96		95		68-130	1		30
2-Hexanone	99		104		70-130	5		30
Bromochloromethane	89		86		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03-04 Batch: WG1554497-3 WG1554497-4								
2,2-Dichloropropane	86		79		70-130	8		30
1,2-Dibromoethane	91		89		70-130	2		30
1,3-Dichloropropane	96		93		69-130	3		30
1,1,1,2-Tetrachloroethane	95		91		70-130	4		30
Bromobenzene	107		103		70-130	4		30
n-Butylbenzene	105		100		70-130	5		30
sec-Butylbenzene	101		96		70-130	5		30
tert-Butylbenzene	101		96		70-130	5		30
o-Chlorotoluene	83		79		70-130	5		30
p-Chlorotoluene	99		96		70-130	3		30
1,2-Dibromo-3-chloropropane	88		85		68-130	3		30
Hexachlorobutadiene	102		97		67-130	5		30
Isopropylbenzene	101		96		70-130	5		30
p-Isopropyltoluene	105		100		70-130	5		30
Naphthalene	96		96		70-130	0		30
Acrylonitrile	99		99		70-130	0		30
n-Propylbenzene	102		97		70-130	5		30
1,2,3-Trichlorobenzene	101		99		70-130	2		30
1,2,4-Trichlorobenzene	107		105		70-130	2		30
1,3,5-Trimethylbenzene	100		95		70-130	5		30
1,2,4-Trimethylbenzene	101		96		70-130	5		30
1,4-Dioxane	84		85		65-136	1		30
p-Diethylbenzene	106		100		70-130	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03-04 Batch: WG1554497-3 WG1554497-4								
p-Ethyltoluene	102		98		70-130	4		30
1,2,4,5-Tetramethylbenzene	104		100		70-130	4		30
Ethyl ether	81		78		67-130	4		30
trans-1,4-Dichloro-2-butene	107		110		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		99		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	97		95		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02,05 Batch: WG1555578-3 WG1555578-4								
Methylene chloride	85		85		70-130	0		30
1,1-Dichloroethane	91		89		70-130	2		30
Chloroform	82		81		70-130	1		30
Carbon tetrachloride	95		94		70-130	1		30
1,2-Dichloropropane	92		90		70-130	2		30
Dibromochloromethane	94		100		70-130	6		30
1,1,2-Trichloroethane	86		92		70-130	7		30
Tetrachloroethene	96		100		70-130	4		30
Chlorobenzene	92		90		70-130	2		30
Trichlorofluoromethane	73		75		70-139	3		30
1,2-Dichloroethane	84		85		70-130	1		30
1,1,1-Trichloroethane	98		97		70-130	1		30
Bromodichloromethane	90		90		70-130	0		30
trans-1,3-Dichloropropene	94		99		70-130	5		30
cis-1,3-Dichloropropene	104		100		70-130	4		30
1,1-Dichloropropene	103		100		70-130	3		30
Bromoform	107		98		70-130	9		30
1,1,2,2-Tetrachloroethane	95		95		70-130	0		30
Benzene	94		92		70-130	2		30
Toluene	87		86		70-130	1		30
Ethylbenzene	94		93		70-130	1		30
Chloromethane	114		112		52-130	2		30
Bromomethane	60		60		57-147	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02,05 Batch: WG1555578-3 WG1555578-4								
Vinyl chloride	90		88		67-130	2		30
Chloroethane	69		69		50-151	0		30
1,1-Dichloroethene	101		103		65-135	2		30
trans-1,2-Dichloroethene	97		96		70-130	1		30
Trichloroethene	93		91		70-130	2		30
1,2-Dichlorobenzene	96		95		70-130	1		30
1,3-Dichlorobenzene	95		93		70-130	2		30
1,4-Dichlorobenzene	93		91		70-130	2		30
Methyl tert butyl ether	96		99		66-130	3		30
p/m-Xylene	98		96		70-130	2		30
o-Xylene	86		85		70-130	1		30
cis-1,2-Dichloroethene	93		92		70-130	1		30
Dibromomethane	89		89		70-130	0		30
Styrene	86		86		70-130	0		30
Dichlorodifluoromethane	118		118		30-146	0		30
Acetone	105		103		54-140	2		30
Carbon disulfide	85		86		59-130	1		30
2-Butanone	130		121		70-130	7		30
Vinyl acetate	101		101		70-130	0		30
4-Methyl-2-pentanone	100		107		70-130	7		30
1,2,3-Trichloropropane	93		91		68-130	2		30
2-Hexanone	118		119		70-130	1		30
Bromochloromethane	94		93		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02,05 Batch: WG1555578-3 WG1555578-4								
2,2-Dichloropropane	99		97		70-130	2		30
1,2-Dibromoethane	96		102		70-130	6		30
1,3-Dichloropropane	89		94		69-130	5		30
1,1,1,2-Tetrachloroethane	94		95		70-130	1		30
Bromobenzene	100		96		70-130	4		30
n-Butylbenzene	98		95		70-130	3		30
sec-Butylbenzene	100		97		70-130	3		30
tert-Butylbenzene	102		99		70-130	3		30
o-Chlorotoluene	96		94		70-130	2		30
p-Chlorotoluene	97		95		70-130	2		30
1,2-Dibromo-3-chloropropane	109		108		68-130	1		30
Hexachlorobutadiene	104		101		67-130	3		30
Isopropylbenzene	109		97		70-130	12		30
p-Isopropyltoluene	105		102		70-130	3		30
Naphthalene	106		107		70-130	1		30
Acrylonitrile	95		95		70-130	0		30
n-Propylbenzene	98		94		70-130	4		30
1,2,3-Trichlorobenzene	108		108		70-130	0		30
1,2,4-Trichlorobenzene	109		108		70-130	1		30
1,3,5-Trimethylbenzene	100		97		70-130	3		30
1,2,4-Trimethylbenzene	102		100		70-130	2		30
1,4-Dioxane	106		110		65-136	4		30
p-Diethylbenzene	104		101		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02,05 Batch: WG1555578-3 WG1555578-4								
p-Ethyltoluene	101		97		70-130	4		30
1,2,4,5-Tetramethylbenzene	94		93		70-130	1		30
Ethyl ether	97		97		67-130	0		30
trans-1,4-Dichloro-2-butene	83		84		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		94		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	113		106		70-130
Dibromofluoromethane	100		101		70-130

SEMIVOLATILES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-01
Client ID: EP36_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 14:00
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/04/21 04:20
Analyst: EK
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/03/21 01:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	190		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	72.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-01 Date Collected: 10/01/21 14:00

Client ID: EP36_ -3 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	98	J	ug/kg	120	24.	1
Benzo(a)pyrene	100	J	ug/kg	170	51.	1
Benzo(b)fluoranthene	130		ug/kg	120	35.	1
Benzo(k)fluoranthene	46	J	ug/kg	120	33.	1
Chrysene	94	J	ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	120	41.	1
Benzo(ghi)perylene	66	J	ug/kg	170	24.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	83	J	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	110	J	ug/kg	170	29.	1
Pyrene	160		ug/kg	120	21.	1
Biphenyl	ND		ug/kg	480	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	78.	1
4-Nitrophenol	ND		ug/kg	290	85.	1
2,4-Dinitrophenol	ND		ug/kg	1000	97.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-01 Date Collected: 10/01/21 14:00

Client ID: EP36_ -3 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	ND		ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	31	9.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		25-120
Phenol-d6	55		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	51		30-120
2,4,6-Tribromophenol	53		10-136
4-Terphenyl-d14	49		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-01
Client ID: EP36_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 14:00
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 15:07
Analyst: HT
Percent Solids: 79%

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.557	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.557	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.279	0.044	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.557	0.059	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.279	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.279	0.067	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.279	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.557	0.200	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.557	0.152	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.279	0.084	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.279	0.145	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.279	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.557	0.320	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.557	0.225	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.557	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.557	0.170	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.557	0.109	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.557	0.094	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.557	0.078	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.557	0.228	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.557	0.060	1
PFOA/PFOS, Total	ND		ng/g	0.279	0.047	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-01 Date Collected: 10/01/21 14:00

Client ID: EP36_ -3 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	90		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	104		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	93		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	82		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	86		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	86		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	98		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	95		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	107		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	79		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	97		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	10		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	75		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	90		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-02
Client ID: EP44_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 14:10
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/04/21 04:43
Analyst: EK
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/03/21 01:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	220	21.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	57.	1
2,4-Dinitrotoluene	ND		ug/kg	220	43.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	110	J	ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	220	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	190	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	74.	1
Butyl benzyl phthalate	ND		ug/kg	220	54.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	73.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-02 Date Collected: 10/01/21 14:10

Client ID: EP44_ -3 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	45.	1
Benzo(a)anthracene	62	J	ug/kg	130	24.	1
Benzo(a)pyrene	61	J	ug/kg	170	52.	1
Benzo(b)fluoranthene	80	J	ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	57	J	ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	42	J	ug/kg	170	25.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	52	J	ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	87	J	ug/kg	170	30.	1
Pyrene	100	J	ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	220	39.	1
2-Nitroaniline	ND		ug/kg	220	41.	1
3-Nitroaniline	ND		ug/kg	220	40.	1
4-Nitroaniline	ND		ug/kg	220	89.	1
Dibenzofuran	ND		ug/kg	220	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	22.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	220	71.	1
2-Nitrophenol	ND		ug/kg	460	81.	1
4-Nitrophenol	ND		ug/kg	300	88.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	220	32.	1
2-Methylphenol	ND		ug/kg	220	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-02 Date Collected: 10/01/21 14:10

Client ID: EP44_ -3 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	41.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	220	66.	1
Carbazole	ND		ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	32	9.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	59		30-120
2,4,6-Tribromophenol	56		10-136
4-Terphenyl-d14	56		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-02
Client ID: EP44_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 14:10
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 15:24
Analyst: HT
Percent Solids: 76%

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.626	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.626	0.058	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.313	0.049	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.626	0.066	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.313	0.057	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.313	0.076	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.313	0.053	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.626	0.225	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.626	0.171	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.313	0.094	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.313	0.163	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.313	0.084	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.626	0.359	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.626	0.252	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.626	0.059	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.626	0.192	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.626	0.106	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.626	0.088	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.626	0.256	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.626	0.068	1
PFOA/PFOS, Total	ND		ng/g	0.313	0.053	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-02 Date Collected: 10/01/21 14:10

Client ID: EP44_ -3 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	90		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	105		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	80		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	84		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	92		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	87		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	96		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	90		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	111		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	72		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	99		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	79		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	90		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-02
Client ID: EP44_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 14:10
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 22:24
Analyst: HT
Percent Solids: 76%

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.626	0.123	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	79		10-117

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-03
Client ID: EP45_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 14:20
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/04/21 05:05
Analyst: EK
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 10/03/21 01:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	250		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-03 Date Collected: 10/01/21 14:20

Client ID: EP45_ -3 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	130		ug/kg	120	23.	1
Benzo(a)pyrene	130	J	ug/kg	160	50.	1
Benzo(b)fluoranthene	170		ug/kg	120	34.	1
Benzo(k)fluoranthene	60	J	ug/kg	120	32.	1
Chrysene	120		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	89	J	ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	100	J	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	130	J	ug/kg	160	28.	1
Pyrene	210		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	83.	1
2,4-Dinitrophenol	ND		ug/kg	970	95.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	97.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-03 Date Collected: 10/01/21 14:20

Client ID: EP45_ -3 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	200	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	30	9.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	64		10-136
4-Terphenyl-d14	67		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-03
Client ID: EP45_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 14:20
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 15:40
Analyst: HT
Percent Solids: 80%

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.608	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.608	0.056	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.304	0.047	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.608	0.064	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.304	0.055	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.304	0.074	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.304	0.051	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.608	0.218	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.608	0.166	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.304	0.091	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.304	0.158	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.304	0.081	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.608	0.349	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.608	0.245	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.608	0.057	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.608	0.186	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.608	0.119	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.608	0.103	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.608	0.085	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.608	0.248	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.608	0.066	1
PFOA/PFOS, Total	ND		ng/g	0.304	0.051	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-03 Date Collected: 10/01/21 14:20

Client ID: EP45_ -3 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	107		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	82		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	87		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	90		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	92		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	101		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	98		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	116		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	79		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	100		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	14		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	80		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	99		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-04
Client ID: DUP01_100121
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 00:00
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/04/21 05:28
Analyst: EK
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/03/21 01:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	220	21.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	57.	1
2,4-Dinitrotoluene	ND		ug/kg	220	43.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	170		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	54.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	73.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-04 Date Collected: 10/01/21 00:00

Client ID: DUP01_100121 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	45.	1
Benzo(a)anthracene	85	J	ug/kg	130	24.	1
Benzo(a)pyrene	88	J	ug/kg	170	53.	1
Benzo(b)fluoranthene	110	J	ug/kg	130	36.	1
Benzo(k)fluoranthene	40	J	ug/kg	130	34.	1
Chrysene	81	J	ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	61	J	ug/kg	170	25.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	70	J	ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	100	J	ug/kg	170	30.	1
Pyrene	140		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	220	39.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	89.	1
Dibenzofuran	ND		ug/kg	220	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	22.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	190	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	71.	1
2-Nitrophenol	ND		ug/kg	470	81.	1
4-Nitrophenol	ND		ug/kg	300	88.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	220	32.	1
2-Methylphenol	ND		ug/kg	220	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-04 Date Collected: 10/01/21 00:00

Client ID: DUP01_100121 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	41.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	220	66.	1
Carbazole	ND		ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	32	9.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	71		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-04
Client ID: DUP01_100121
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 00:00
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 15:57
Analyst: HT
Percent Solids: 76%

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.588	0.027	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.588	0.054	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.294	0.046	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.588	0.062	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.294	0.053	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.294	0.071	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.294	0.049	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.588	0.211	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.588	0.161	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.294	0.088	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.294	0.153	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.294	0.079	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.588	0.338	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.588	0.237	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.588	0.055	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.588	0.180	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.588	0.115	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.588	0.099	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.588	0.082	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.588	0.241	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.588	0.064	1
PFOA/PFOS, Total	ND		ng/g	0.294	0.049	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-04 Date Collected: 10/01/21 00:00

Client ID: DUP01_100121 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	108		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	81		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	85		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	94		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	92		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	96		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	110		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	88		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	99		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	11		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	85		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	99		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-05
Client ID: DUP02_100121
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 00:00
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/04/21 05:51
Analyst: EK
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 10/03/21 01:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	190		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	73.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-05 Date Collected: 10/01/21 00:00

Client ID: DUP02_100121 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	97	J	ug/kg	130	24.	1
Benzo(a)pyrene	97	J	ug/kg	170	52.	1
Benzo(b)fluoranthene	130		ug/kg	130	36.	1
Benzo(k)fluoranthene	38	J	ug/kg	130	34.	1
Chrysene	93	J	ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	41.	1
Benzo(ghi)perylene	68	J	ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	87	J	ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	110	J	ug/kg	170	30.	1
Pyrene	170		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	88.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	80.	1
4-Nitrophenol	ND		ug/kg	300	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	99.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-05 Date Collected: 10/01/21 00:00

Client ID: DUP02_100121 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	690	210	1
Benzyl Alcohol	ND		ug/kg	210	65.	1
Carbazole	ND		ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	32	9.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	78		10-136
4-Terphenyl-d14	76		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-05
Client ID: DUP02_100121
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 00:00
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 16:14
Analyst: HT
Percent Solids: 78%

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.621	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.621	0.057	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.310	0.048	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.621	0.065	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.310	0.056	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.310	0.075	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.310	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.621	0.223	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.621	0.170	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.310	0.093	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.310	0.161	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.310	0.083	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.621	0.356	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.621	0.250	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.621	0.058	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.621	0.190	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.621	0.105	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.621	0.087	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.621	0.254	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.621	0.067	1
PFOA/PFOS, Total	ND		ng/g	0.310	0.052	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-05 Date Collected: 10/01/21 00:00

Client ID: DUP02_100121 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	90		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	103		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	78		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	82		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	88		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	90		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	86		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	96		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	94		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	90		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	108		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	81		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	99		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	78		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	86		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-05
Client ID: DUP02_100121
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 00:00
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 22:31
Analyst: HT
Percent Solids: 78%

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.621	0.122	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	73		10-117

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/03/21 23:48
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 10/03/21 01:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1553772-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/03/21 23:48
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 10/03/21 01:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1553772-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/03/21 23:48
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 10/03/21 01:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1553772-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	78		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 11:15
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-05 Batch: WG1553947-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 11:15
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-05 Batch: WG1553947-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	83		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	94		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	75		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	79		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	91		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	81		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	85		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	97		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	71		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	94		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**6**	Q	10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	65		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	81		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	77		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/05/21 21:55
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 10/04/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-05 Batch: WG1553947-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	87		10-117

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1553772-2 WG1553772-3								
Acenaphthene	55		56		31-137	2		50
1,2,4-Trichlorobenzene	60		60		38-107	0		50
Hexachlorobenzene	58		59		40-140	2		50
Bis(2-chloroethyl)ether	55		55		40-140	0		50
2-Chloronaphthalene	58		58		40-140	0		50
1,2-Dichlorobenzene	56		56		40-140	0		50
1,3-Dichlorobenzene	54		54		40-140	0		50
1,4-Dichlorobenzene	55		55		28-104	0		50
3,3'-Dichlorobenzidine	44		46		40-140	4		50
2,4-Dinitrotoluene	62		63		40-132	2		50
2,6-Dinitrotoluene	64		64		40-140	0		50
Fluoranthene	58		58		40-140	0		50
4-Chlorophenyl phenyl ether	57		57		40-140	0		50
4-Bromophenyl phenyl ether	58		58		40-140	0		50
Bis(2-chloroisopropyl)ether	56		57		40-140	2		50
Bis(2-chloroethoxy)methane	58		59		40-117	2		50
Hexachlorobutadiene	57		58		40-140	2		50
Hexachlorocyclopentadiene	56		58		40-140	4		50
Hexachloroethane	54		55		40-140	2		50
Isophorone	60		61		40-140	2		50
Naphthalene	54		56		40-140	4		50
Nitrobenzene	59		59		40-140	0		50
NDPA/DPA	58		58		36-157	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153655

Report Date: 10/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1553772-2 WG1553772-3								
n-Nitrosodi-n-propylamine	59		60		32-121	2		50
Bis(2-ethylhexyl)phthalate	63		63		40-140	0		50
Butyl benzyl phthalate	61		62		40-140	2		50
Di-n-butylphthalate	60		61		40-140	2		50
Di-n-octylphthalate	63		63		40-140	0		50
Diethyl phthalate	58		59		40-140	2		50
Dimethyl phthalate	60		61		40-140	2		50
Benzo(a)anthracene	57		58		40-140	2		50
Benzo(a)pyrene	62		63		40-140	2		50
Benzo(b)fluoranthene	59		58		40-140	2		50
Benzo(k)fluoranthene	61		60		40-140	2		50
Chrysene	56		56		40-140	0		50
Acenaphthylene	60		60		40-140	0		50
Anthracene	56		56		40-140	0		50
Benzo(ghi)perylene	63		64		40-140	2		50
Fluorene	56		58		40-140	4		50
Phenanthrene	54		55		40-140	2		50
Dibenzo(a,h)anthracene	64		64		40-140	0		50
Indeno(1,2,3-cd)pyrene	57		58		40-140	2		50
Pyrene	57		58		35-142	2		50
Biphenyl	61		61		37-127	0		50
4-Chloroaniline	54		55		40-140	2		50
2-Nitroaniline	65		64		47-134	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153655

Report Date: 10/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1553772-2 WG1553772-3								
3-Nitroaniline	50		50		26-129	0		50
4-Nitroaniline	56		56		41-125	0		50
Dibenzofuran	55		56		40-140	2		50
2-Methylnaphthalene	57		58		40-140	2		50
1,2,4,5-Tetrachlorobenzene	60		61		40-117	2		50
Acetophenone	62		63		14-144	2		50
2,4,6-Trichlorophenol	66		67		30-130	2		50
p-Chloro-m-cresol	65		64		26-103	2		50
2-Chlorophenol	60		61		25-102	2		50
2,4-Dichlorophenol	65		65		30-130	0		50
2,4-Dimethylphenol	63		63		30-130	0		50
2-Nitrophenol	63		63		30-130	0		50
4-Nitrophenol	61		62		11-114	2		50
2,4-Dinitrophenol	56		56		4-130	0		50
4,6-Dinitro-o-cresol	62		61		10-130	2		50
Pentachlorophenol	55		55		17-109	0		50
Phenol	59		60		26-90	2		50
2-Methylphenol	62		62		30-130.	0		50
3-Methylphenol/4-Methylphenol	62		62		30-130	0		50
2,4,5-Trichlorophenol	64		64		30-130	0		50
Benzoic Acid	52		56		10-110	7		50
Benzyl Alcohol	63		63		40-140	0		50
Carbazole	57		58		54-128	2		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1553772-2 WG1553772-3								
1,4-Dioxane	42		42		40-140	0		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	61		61		25-120
Phenol-d6	64		65		10-120
Nitrobenzene-d5	59		60		23-120
2-Fluorobiphenyl	57		59		30-120
2,4,6-Tribromophenol	59		60		10-136
4-Terphenyl-d14	59		60		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 Batch: WG1553947-2								
Perfluorobutanoic Acid (PFBA)	99		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	97		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	99		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	98		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	97		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	95		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	98		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	94		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	88		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	97		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	91		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	100		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	96		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	107		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	97		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	95		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	106		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	96		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	92		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	115		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	98		-		69-133	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 Batch: WG1553947-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	79				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	95				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	89				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	73				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	78				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	90				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	85				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	92				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	85				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	96				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	64				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	92				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**7**	Q			10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	66				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	86				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	78				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153655

Report Date: 10/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 Batch: WG1553947-2								
Perfluorooctanesulfonamide (FOSA)	112		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	87				10-117

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153655

Report Date: 10/07/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1553947-3 WG1553947-4 QC Sample: L2153255-03 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	5.06	4.99	99		4.60	99		71-135	8		30
Perfluoropentanoic Acid (PFPeA)	ND	5.06	4.93	97		4.56	98		69-132	8		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.49	4.41	98		4.11	99		72-128	7		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	4.74	4.95	105		4.53	104		62-145	9		30
Perfluorohexanoic Acid (PFHxA)	ND	5.06	4.89	97		4.74	101		70-132	3		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	4.76	4.13	87		3.96	90		73-123	4		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.06	5.00	99		4.58	98		71-131	9		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.62	4.30	93		3.96	93		67-130	8		30
Perfluorooctanoic Acid (PFOA)	ND	5.06	5.10	101		4.67	100		69-133	9		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.82	4.62	96		4.21	95		64-140	9		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.82	4.70	98		4.46	100		70-132	5		30
Perfluorononanoic Acid (PFNA)	ND	5.06	4.94	98		4.62	99		72-129	7		30
Perfluorooctanesulfonic Acid (PFOS)	ND	4.69	4.32	92		4.06	94		68-136	6		30
Perfluorodecanoic Acid (PFDA)	ND	5.06	4.90	97		4.57	98		69-133	7		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.86	4.79	99		4.63	103		65-137	3		30
Perfluorononanesulfonic Acid (PFNS)	ND	4.87	4.80	99		4.49	100		69-125	7		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.06	5.03F	99		4.48F	96		63-144	12		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.06	4.90	97		4.72	101		64-136	4		30
Perfluorodecanesulfonic Acid (PFDS)	ND	4.88	4.60	94		4.32	96		59-134	6		30
Perfluorooctanesulfonamide (FOSA)	ND	5.06	4.85	96		4.68	100		67-137	4		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.06	5.12	101		4.31	92		61-139	17		30
Perfluorododecanoic Acid (PFDoA)	ND	5.06	5.02	99		4.67	100		69-135	7		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1553947-3 WG1553947-4 QC Sample: L2153255-03 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	5.06	6.41	127		5.87	126		66-139	9		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.06	4.90	97		4.66	100		69-133	5		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	100		93		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	65		67		14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	87		86		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	56		65		34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	63		73		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	93		91		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		91		75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	80		79		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	82		84		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		91		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	85		84		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	52		60		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		91		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	102		103		58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	37		16		10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	94		92		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	90		91		75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		94		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		88		74-139

PCBS

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-01
Client ID: EP36_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 14:00
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/03/21 21:03
Analyst: CW
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/03/21 01:36
Cleanup Method: EPA 3665A
Cleanup Date: 10/03/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.5	3.68	1	A
Aroclor 1221	ND		ug/kg	41.5	4.16	1	A
Aroclor 1232	ND		ug/kg	41.5	8.79	1	A
Aroclor 1242	ND		ug/kg	41.5	5.59	1	A
Aroclor 1248	ND		ug/kg	41.5	6.22	1	A
Aroclor 1254	ND		ug/kg	41.5	4.54	1	A
Aroclor 1260	ND		ug/kg	41.5	7.66	1	A
Aroclor 1262	ND		ug/kg	41.5	5.27	1	A
Aroclor 1268	ND		ug/kg	41.5	4.30	1	A
PCBs, Total	ND		ug/kg	41.5	3.68	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-02
Client ID: EP44_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 14:10
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/03/21 21:11
Analyst: CW
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/03/21 01:36
Cleanup Method: EPA 3665A
Cleanup Date: 10/03/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.3	3.67	1	A
Aroclor 1221	ND		ug/kg	41.3	4.14	1	A
Aroclor 1232	ND		ug/kg	41.3	8.76	1	A
Aroclor 1242	ND		ug/kg	41.3	5.57	1	A
Aroclor 1248	ND		ug/kg	41.3	6.20	1	A
Aroclor 1254	ND		ug/kg	41.3	4.52	1	A
Aroclor 1260	ND		ug/kg	41.3	7.64	1	A
Aroclor 1262	ND		ug/kg	41.3	5.25	1	A
Aroclor 1268	ND		ug/kg	41.3	4.28	1	A
PCBs, Total	ND		ug/kg	41.3	3.67	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-03
Client ID: EP45_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 14:20
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/03/21 21:19
Analyst: CW
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 10/03/21 01:36
Cleanup Method: EPA 3665A
Cleanup Date: 10/03/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.2	3.49	1	A
Aroclor 1221	ND		ug/kg	39.2	3.93	1	A
Aroclor 1232	ND		ug/kg	39.2	8.32	1	A
Aroclor 1242	ND		ug/kg	39.2	5.29	1	A
Aroclor 1248	ND		ug/kg	39.2	5.89	1	A
Aroclor 1254	ND		ug/kg	39.2	4.29	1	A
Aroclor 1260	ND		ug/kg	39.2	7.25	1	A
Aroclor 1262	ND		ug/kg	39.2	4.98	1	A
Aroclor 1268	ND		ug/kg	39.2	4.07	1	A
PCBs, Total	ND		ug/kg	39.2	3.49	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2153655
Project Number: 170599501
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-04
Client ID: DUP01_100121
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 00:00
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/03/21 21:27
Analyst: CW
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/03/21 01:36
Cleanup Method: EPA 3665A
Cleanup Date: 10/03/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.2	3.75	1	A
Aroclor 1221	ND		ug/kg	42.2	4.23	1	A
Aroclor 1232	ND		ug/kg	42.2	8.94	1	A
Aroclor 1242	ND		ug/kg	42.2	5.69	1	A
Aroclor 1248	ND		ug/kg	42.2	6.33	1	A
Aroclor 1254	ND		ug/kg	42.2	4.62	1	A
Aroclor 1260	ND		ug/kg	42.2	7.80	1	A
Aroclor 1262	ND		ug/kg	42.2	5.36	1	A
Aroclor 1268	ND		ug/kg	42.2	4.37	1	A
PCBs, Total	ND		ug/kg	42.2	3.75	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-05
Client ID: DUP02_100121
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 00:00
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/03/21 21:35
Analyst: CW
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 10/03/21 01:36
Cleanup Method: EPA 3665A
Cleanup Date: 10/03/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.6	3.61	1	A
Aroclor 1221	ND		ug/kg	40.6	4.07	1	A
Aroclor 1232	ND		ug/kg	40.6	8.62	1	A
Aroclor 1242	ND		ug/kg	40.6	5.48	1	A
Aroclor 1248	ND		ug/kg	40.6	6.10	1	A
Aroclor 1254	ND		ug/kg	40.6	4.45	1	A
Aroclor 1260	ND		ug/kg	40.6	7.51	1	A
Aroclor 1262	ND		ug/kg	40.6	5.16	1	A
Aroclor 1268	ND		ug/kg	40.6	4.21	1	A
PCBs, Total	ND		ug/kg	40.6	3.61	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/03/21 20:39
Analyst: CW

Extraction Method: EPA 3546
Extraction Date: 10/03/21 01:36
Cleanup Method: EPA 3665A
Cleanup Date: 10/03/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-05 Batch: WG1553773-1						
Aroclor 1016	ND		ug/kg	32.7	2.90	A
Aroclor 1221	ND		ug/kg	32.7	3.28	A
Aroclor 1232	ND		ug/kg	32.7	6.93	A
Aroclor 1242	ND		ug/kg	32.7	4.41	A
Aroclor 1248	ND		ug/kg	32.7	4.90	A
Aroclor 1254	ND		ug/kg	32.7	3.58	A
Aroclor 1260	ND		ug/kg	32.7	6.04	A
Aroclor 1262	ND		ug/kg	32.7	4.15	A
Aroclor 1268	ND		ug/kg	32.7	3.39	A
PCBs, Total	ND		ug/kg	32.7	2.90	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	71		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1553773-2 WG1553773-3									
Aroclor 1016	84		84		40-140	0		50	A
Aroclor 1260	95		92		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		78		30-150	A
Decachlorobiphenyl	94		93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		79		30-150	B
Decachlorobiphenyl	71		70		30-150	B

PESTICIDES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-01
Client ID: EP36_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 14:00
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/06/21 12:44
Analyst: AR
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/03/21 01:26
Cleanup Method: EPA 3620B
Cleanup Date: 10/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.93	0.378	1	A
Lindane	ND		ug/kg	0.804	0.359	1	A
Alpha-BHC	ND		ug/kg	0.804	0.228	1	A
Beta-BHC	ND		ug/kg	1.93	0.731	1	A
Heptachlor	ND		ug/kg	0.964	0.432	1	A
Aldrin	ND		ug/kg	1.93	0.679	1	A
Heptachlor epoxide	ND		ug/kg	3.62	1.08	1	A
Endrin	ND		ug/kg	0.804	0.330	1	A
Endrin aldehyde	ND		ug/kg	2.41	0.844	1	A
Endrin ketone	ND		ug/kg	1.93	0.497	1	A
Dieldrin	ND		ug/kg	1.20	0.603	1	A
4,4'-DDE	4.25		ug/kg	1.93	0.446	1	B
4,4'-DDD	ND		ug/kg	1.93	0.688	1	B
4,4'-DDT	ND		ug/kg	3.62	1.55	1	B
Endosulfan I	ND		ug/kg	1.93	0.456	1	A
Endosulfan II	ND		ug/kg	1.93	0.644	1	A
Endosulfan sulfate	ND		ug/kg	0.804	0.382	1	A
Methoxychlor	ND		ug/kg	3.62	1.12	1	A
Toxaphene	ND		ug/kg	36.2	10.1	1	A
cis-Chlordane	ND		ug/kg	2.41	0.672	1	A
trans-Chlordane	ND		ug/kg	2.41	0.636	1	A
Chlordane	ND		ug/kg	16.1	6.39	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-01 Date Collected: 10/01/21 14:00

Client ID: EP36_ -3 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	113		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-01
Client ID: EP36_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 14:00
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/05/21 18:44
Analyst: EJL
Percent Solids: 79%
Methylation Date: 10/03/21 07:16

Extraction Method: EPA 8151A
Extraction Date: 10/02/21 09:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	208	13.1	1	A
2,4,5-T	ND		ug/kg	208	6.44	1	A
2,4,5-TP (Silvex)	ND		ug/kg	208	5.52	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	79		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-02
Client ID: EP44_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 14:10
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/06/21 12:55
Analyst: AR
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/03/21 01:26
Cleanup Method: EPA 3620B
Cleanup Date: 10/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.01	0.394	1	A
Lindane	ND		ug/kg	0.838	0.375	1	A
Alpha-BHC	ND		ug/kg	0.838	0.238	1	A
Beta-BHC	ND		ug/kg	2.01	0.763	1	A
Heptachlor	ND		ug/kg	1.01	0.451	1	A
Aldrin	ND		ug/kg	2.01	0.708	1	A
Heptachlor epoxide	ND		ug/kg	3.77	1.13	1	A
Endrin	ND		ug/kg	0.838	0.344	1	A
Endrin aldehyde	ND		ug/kg	2.52	0.880	1	A
Endrin ketone	ND		ug/kg	2.01	0.518	1	A
Dieldrin	ND		ug/kg	1.26	0.629	1	A
4,4'-DDE	5.18		ug/kg	2.01	0.465	1	B
4,4'-DDD	0.747	J	ug/kg	2.01	0.718	1	B
4,4'-DDT	1.66	J	ug/kg	3.77	1.62	1	A
Endosulfan I	ND		ug/kg	2.01	0.475	1	A
Endosulfan II	ND		ug/kg	2.01	0.672	1	A
Endosulfan sulfate	ND		ug/kg	0.838	0.399	1	A
Methoxychlor	ND		ug/kg	3.77	1.17	1	A
Toxaphene	ND		ug/kg	37.7	10.6	1	A
cis-Chlordane	ND		ug/kg	2.52	0.701	1	A
trans-Chlordane	ND		ug/kg	2.52	0.664	1	A
Chlordane	ND		ug/kg	16.8	6.67	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-02 Date Collected: 10/01/21 14:10

Client ID: EP44_ -3 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-02
Client ID: EP44_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 14:10
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/05/21 19:03
Analyst: EJL
Percent Solids: 76%
Methylation Date: 10/03/21 07:16

Extraction Method: EPA 8151A
Extraction Date: 10/02/21 09:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	214	13.5	1	A
2,4,5-T	ND		ug/kg	214	6.64	1	A
2,4,5-TP (Silvex)	ND		ug/kg	214	5.69	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	89		30-150	A
DCAA	77		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-03
Client ID: EP45_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 14:20
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/06/21 13:07
Analyst: AR
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 10/03/21 01:26
Cleanup Method: EPA 3620B
Cleanup Date: 10/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.94	0.379	1	A
Lindane	ND		ug/kg	0.806	0.360	1	A
Alpha-BHC	ND		ug/kg	0.806	0.229	1	A
Beta-BHC	ND		ug/kg	1.94	0.734	1	A
Heptachlor	ND		ug/kg	0.968	0.434	1	A
Aldrin	ND		ug/kg	1.94	0.681	1	A
Heptachlor epoxide	ND		ug/kg	3.63	1.09	1	A
Endrin	ND		ug/kg	0.806	0.331	1	A
Endrin aldehyde	ND		ug/kg	2.42	0.847	1	A
Endrin ketone	ND		ug/kg	1.94	0.498	1	A
Dieldrin	ND		ug/kg	1.21	0.605	1	A
4,4'-DDE	5.97		ug/kg	1.94	0.448	1	B
4,4'-DDD	1.46	J	ug/kg	1.94	0.690	1	B
4,4'-DDT	3.19	J	ug/kg	3.63	1.56	1	B
Endosulfan I	ND		ug/kg	1.94	0.457	1	A
Endosulfan II	ND		ug/kg	1.94	0.647	1	A
Endosulfan sulfate	ND		ug/kg	0.806	0.384	1	A
Methoxychlor	ND		ug/kg	3.63	1.13	1	A
Toxaphene	ND		ug/kg	36.3	10.2	1	A
cis-Chlordane	ND		ug/kg	2.42	0.674	1	A
trans-Chlordane	ND	IP	ug/kg	2.42	0.639	1	B
Chlordane	ND		ug/kg	16.1	6.41	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-03 Date Collected: 10/01/21 14:20

Client ID: EP45_ -3 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	100		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2153655
Project Number: 170599501
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-03
Client ID: EP45_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 14:20
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/05/21 19:21
Analyst: EJL
Percent Solids: 80%
Methylation Date: 10/03/21 07:16

Extraction Method: EPA 8151A
Extraction Date: 10/02/21 09:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	207	13.0	1	A
2,4,5-T	ND		ug/kg	207	6.42	1	A
2,4,5-TP (Silvex)	ND		ug/kg	207	5.51	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	87		30-150	A
DCAA	86		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-04
Client ID: DUP01_100121
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 00:00
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/06/21 13:18
Analyst: AR
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/03/21 01:26
Cleanup Method: EPA 3620B
Cleanup Date: 10/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.08	0.406	1	A
Lindane	ND		ug/kg	0.865	0.387	1	A
Alpha-BHC	ND		ug/kg	0.865	0.246	1	A
Beta-BHC	ND		ug/kg	2.08	0.787	1	A
Heptachlor	ND		ug/kg	1.04	0.465	1	A
Aldrin	ND		ug/kg	2.08	0.731	1	A
Heptachlor epoxide	ND		ug/kg	3.89	1.17	1	A
Endrin	ND		ug/kg	0.865	0.355	1	A
Endrin aldehyde	ND		ug/kg	2.60	0.908	1	A
Endrin ketone	ND		ug/kg	2.08	0.535	1	A
Dieldrin	ND		ug/kg	1.30	0.649	1	A
4,4'-DDE	5.01		ug/kg	2.08	0.480	1	B
4,4'-DDD	1.97	J	ug/kg	2.08	0.740	1	B
4,4'-DDT	1.72	J	ug/kg	3.89	1.67	1	B
Endosulfan I	ND		ug/kg	2.08	0.490	1	A
Endosulfan II	ND		ug/kg	2.08	0.694	1	A
Endosulfan sulfate	ND		ug/kg	0.865	0.412	1	A
Methoxychlor	ND		ug/kg	3.89	1.21	1	A
Toxaphene	ND		ug/kg	38.9	10.9	1	A
cis-Chlordane	ND		ug/kg	2.60	0.723	1	A
trans-Chlordane	ND		ug/kg	2.60	0.685	1	A
Chlordane	ND		ug/kg	17.3	6.88	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-04 Date Collected: 10/01/21 00:00

Client ID: DUP01_100121 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	91		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2153655
Project Number: 170599501
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-04
Client ID: DUP01_100121
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 00:00
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/05/21 19:39
Analyst: EJL
Percent Solids: 76%
Methylation Date: 10/03/21 07:16

Extraction Method: EPA 8151A
Extraction Date: 10/02/21 09:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	214	13.5	1	A
2,4,5-T	ND		ug/kg	214	6.63	1	A
2,4,5-TP (Silvex)	ND		ug/kg	214	5.69	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	76		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-05
Client ID: DUP02_100121
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 00:00
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/06/21 13:29
Analyst: AR
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 10/03/21 01:26
Cleanup Method: EPA 3620B
Cleanup Date: 10/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.97	0.385	1	A
Lindane	ND		ug/kg	0.819	0.366	1	A
Alpha-BHC	ND		ug/kg	0.819	0.233	1	A
Beta-BHC	ND		ug/kg	1.97	0.745	1	A
Heptachlor	ND		ug/kg	0.983	0.441	1	A
Aldrin	ND		ug/kg	1.97	0.692	1	A
Heptachlor epoxide	ND		ug/kg	3.69	1.10	1	A
Endrin	ND		ug/kg	0.819	0.336	1	A
Endrin aldehyde	ND		ug/kg	2.46	0.860	1	A
Endrin ketone	ND		ug/kg	1.97	0.506	1	A
Dieldrin	ND		ug/kg	1.23	0.614	1	A
4,4'-DDE	4.92	P	ug/kg	1.97	0.455	1	B
4,4'-DDD	0.996	J	ug/kg	1.97	0.701	1	A
4,4'-DDT	1.94	JP	ug/kg	3.69	1.58	1	B
Endosulfan I	ND		ug/kg	1.97	0.464	1	A
Endosulfan II	ND		ug/kg	1.97	0.657	1	A
Endosulfan sulfate	ND		ug/kg	0.819	0.390	1	A
Methoxychlor	ND		ug/kg	3.69	1.15	1	A
Toxaphene	ND		ug/kg	36.9	10.3	1	A
cis-Chlordane	ND		ug/kg	2.46	0.685	1	A
trans-Chlordane	ND		ug/kg	2.46	0.649	1	A
Chlordane	ND		ug/kg	16.4	6.51	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2153655

Project Number: 170599501 **Report Date:** 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-05 Date Collected: 10/01/21 00:00

Client ID: DUP02_100121 Date Received: 10/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2153655
Project Number: 170599501
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-05
Client ID: DUP02_100121
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 00:00
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/05/21 19:58
Analyst: EJL
Percent Solids: 78%
Methylation Date: 10/03/21 07:16

Extraction Method: EPA 8151A
Extraction Date: 10/02/21 09:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	214	13.5	1	A
2,4,5-T	ND		ug/kg	214	6.64	1	A
2,4,5-TP (Silvex)	ND		ug/kg	214	5.69	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	89		30-150	A
DCAA	81		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 10/04/21 11:17
Analyst: SDC

Extraction Method: EPA 8151A
Extraction Date: 10/01/21 23:29

Methylation Date: 10/02/21 18:34

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1553554-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.01	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.30	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	87		30-150	A
DCAA	75		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/06/21 12:11
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 10/02/21 10:21
Cleanup Method: EPA 3620B
Cleanup Date: 10/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1555153-1						
Delta-BHC	ND		ug/kg	1.50	0.294	A
Lindane	ND		ug/kg	0.626	0.280	A
Alpha-BHC	ND		ug/kg	0.626	0.178	A
Beta-BHC	ND		ug/kg	1.50	0.570	A
Heptachlor	ND		ug/kg	0.751	0.337	A
Aldrin	ND		ug/kg	1.50	0.529	A
Heptachlor epoxide	ND		ug/kg	2.82	0.845	A
Endrin	ND		ug/kg	0.626	0.257	A
Endrin aldehyde	ND		ug/kg	1.88	0.657	A
Endrin ketone	ND		ug/kg	1.50	0.387	A
Dieldrin	ND		ug/kg	0.939	0.470	A
4,4'-DDE	ND		ug/kg	1.50	0.348	A
4,4'-DDD	ND		ug/kg	1.50	0.536	A
4,4'-DDT	ND		ug/kg	2.82	1.21	A
Endosulfan I	ND		ug/kg	1.50	0.355	A
Endosulfan II	ND		ug/kg	1.50	0.502	A
Endosulfan sulfate	ND		ug/kg	0.626	0.298	A
Methoxychlor	ND		ug/kg	2.82	0.877	A
Toxaphene	ND		ug/kg	28.2	7.89	A
cis-Chlordane	ND		ug/kg	1.88	0.523	A
trans-Chlordane	ND		ug/kg	1.88	0.496	A
Chlordane	ND		ug/kg	12.5	4.98	A

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/06/21 12:11
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 10/02/21 10:21
Cleanup Method: EPA 3620B
Cleanup Date: 10/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1555153-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	109		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	74		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1553554-2 WG1553554-3									
2,4-D	78		77		30-150	1		30	A
2,4,5-T	81		77		30-150	5		30	A
2,4,5-TP (Silvex)	82		79		30-150	4		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	87		82		30-150	A
DCAA	84		82		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1555153-2 WG1555153-3									
Delta-BHC	72		81		30-150	12		30	A
Lindane	74		82		30-150	10		30	A
Alpha-BHC	68		76		30-150	11		30	A
Beta-BHC	70		77		30-150	10		30	A
Heptachlor	86		94		30-150	9		30	A
Aldrin	78		86		30-150	10		30	A
Heptachlor epoxide	68		78		30-150	14		30	A
Endrin	87		98		30-150	12		30	A
Endrin aldehyde	69		82		30-150	17		30	A
Endrin ketone	71		86		30-150	19		30	A
Dieldrin	88		98		30-150	11		30	A
4,4'-DDE	82		88		30-150	7		30	A
4,4'-DDD	92		103		30-150	11		30	A
4,4'-DDT	95		104		30-150	9		30	A
Endosulfan I	77		84		30-150	9		30	A
Endosulfan II	83		94		30-150	12		30	A
Endosulfan sulfate	79		94		30-150	17		30	A
Methoxychlor	85		96		30-150	12		30	A
cis-Chlordane	62		71		30-150	14		30	A
trans-Chlordane	95		103		30-150	8		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1555153-2 WG1555153-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		79		30-150	A
Decachlorobiphenyl	125		132		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		70		30-150	B
Decachlorobiphenyl	77		87		30-150	B

METALS

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-01
Client ID: EP36_ -3
Sample Location: BROOKLYN, NY
Date Collected: 10/01/21 14:00
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	576		mg/kg	9.65	2.61	2	10/04/21 16:11	10/05/21 18:07	EPA 3050B	1,6010D	MP
Antimony, Total	ND		mg/kg	4.83	0.367	2	10/04/21 16:11	10/05/21 18:07	EPA 3050B	1,6010D	MP
Arsenic, Total	0.531	J	mg/kg	0.965	0.201	2	10/04/21 16:11	10/05/21 18:07	EPA 3050B	1,6010D	MP
Barium, Total	10.0		mg/kg	0.965	0.168	2	10/04/21 16:11	10/05/21 18:07	EPA 3050B	1,6010D	MP
Beryllium, Total	ND		mg/kg	0.483	0.032	2	10/04/21 16:11	10/05/21 18:07	EPA 3050B	1,6010D	MP
Cadmium, Total	ND		mg/kg	0.965	0.095	2	10/04/21 16:11	10/05/21 18:07	EPA 3050B	1,6010D	MP
Calcium, Total	1020		mg/kg	9.65	3.38	2	10/04/21 16:11	10/05/21 18:07	EPA 3050B	1,6010D	MP
Chromium, Total	4.56		mg/kg	0.965	0.093	2	10/04/21 16:11	10/05/21 18:07	EPA 3050B	1,6010D	MP
Cobalt, Total	0.618	J	mg/kg	1.93	0.160	2	10/04/21 16:11	10/05/21 18:07	EPA 3050B	1,6010D	MP
Copper, Total	2.46		mg/kg	0.965	0.249	2	10/04/21 16:11	10/05/21 18:07	EPA 3050B	1,6010D	MP
Iron, Total	1440		mg/kg	4.83	0.872	2	10/04/21 16:11	10/05/21 18:07	EPA 3050B	1,6010D	MP
Lead, Total	21.7		mg/kg	4.83	0.259	2	10/04/21 16:11	10/05/21 18:07	EPA 3050B	1,6010D	MP
Magnesium, Total	300		mg/kg	9.65	1.49	2	10/04/21 16:11	10/05/21 18:07	EPA 3050B	1,6010D	MP
Manganese, Total	15.2		mg/kg	0.965	0.153	2	10/04/21 16:11	10/05/21 18:07	EPA 3050B	1,6010D	MP
Mercury, Total	ND		mg/kg	0.085	0.056	1	10/04/21 16:22	10/04/21 19:55	EPA 7471B	1,7471B	AC
Nickel, Total	1.91	J	mg/kg	2.41	0.234	2	10/04/21 16:11	10/05/21 18:07	EPA 3050B	1,6010D	MP
Potassium, Total	127	J	mg/kg	241	13.9	2	10/04/21 16:11	10/05/21 18:07	EPA 3050B	1,6010D	MP
Selenium, Total	ND		mg/kg	1.93	0.249	2	10/04/21 16:11	10/05/21 18:07	EPA 3050B	1,6010D	MP
Silver, Total	0.627	J	mg/kg	0.965	0.273	2	10/04/21 16:11	10/05/21 18:07	EPA 3050B	1,6010D	MP
Sodium, Total	103	J	mg/kg	193	3.04	2	10/04/21 16:11	10/05/21 18:07	EPA 3050B	1,6010D	MP
Thallium, Total	ND		mg/kg	1.93	0.304	2	10/04/21 16:11	10/05/21 18:07	EPA 3050B	1,6010D	MP
Vanadium, Total	2.96		mg/kg	0.965	0.196	2	10/04/21 16:11	10/05/21 18:07	EPA 3050B	1,6010D	MP
Zinc, Total	25.6		mg/kg	4.83	0.283	2	10/04/21 16:11	10/05/21 18:07	EPA 3050B	1,6010D	MP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	4.6		mg/kg	1.0	1.0	1		10/07/21 12:45	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-02
Client ID: EP44_ -3
Sample Location: BROOKLYN, NY
Date Collected: 10/01/21 14:10
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	557		mg/kg	9.98	2.69	2	10/04/21 16:11	10/05/21 18:12	EPA 3050B	1,6010D	MP
Antimony, Total	ND		mg/kg	4.99	0.379	2	10/04/21 16:11	10/05/21 18:12	EPA 3050B	1,6010D	MP
Arsenic, Total	0.549	J	mg/kg	0.998	0.208	2	10/04/21 16:11	10/05/21 18:12	EPA 3050B	1,6010D	MP
Barium, Total	8.58		mg/kg	0.998	0.174	2	10/04/21 16:11	10/05/21 18:12	EPA 3050B	1,6010D	MP
Beryllium, Total	ND		mg/kg	0.499	0.033	2	10/04/21 16:11	10/05/21 18:12	EPA 3050B	1,6010D	MP
Cadmium, Total	ND		mg/kg	0.998	0.098	2	10/04/21 16:11	10/05/21 18:12	EPA 3050B	1,6010D	MP
Calcium, Total	796		mg/kg	9.98	3.49	2	10/04/21 16:11	10/05/21 18:12	EPA 3050B	1,6010D	MP
Chromium, Total	2.68		mg/kg	0.998	0.096	2	10/04/21 16:11	10/05/21 18:12	EPA 3050B	1,6010D	MP
Cobalt, Total	0.569	J	mg/kg	2.00	0.166	2	10/04/21 16:11	10/05/21 18:12	EPA 3050B	1,6010D	MP
Copper, Total	2.20		mg/kg	0.998	0.257	2	10/04/21 16:11	10/05/21 18:12	EPA 3050B	1,6010D	MP
Iron, Total	1260		mg/kg	4.99	0.901	2	10/04/21 16:11	10/05/21 18:12	EPA 3050B	1,6010D	MP
Lead, Total	11.7		mg/kg	4.99	0.267	2	10/04/21 16:11	10/05/21 18:12	EPA 3050B	1,6010D	MP
Magnesium, Total	314		mg/kg	9.98	1.54	2	10/04/21 16:11	10/05/21 18:12	EPA 3050B	1,6010D	MP
Manganese, Total	14.0		mg/kg	0.998	0.159	2	10/04/21 16:11	10/05/21 18:12	EPA 3050B	1,6010D	MP
Mercury, Total	ND		mg/kg	0.084	0.055	1	10/04/21 16:22	10/04/21 19:58	EPA 7471B	1,7471B	AC
Nickel, Total	1.51	J	mg/kg	2.49	0.241	2	10/04/21 16:11	10/05/21 18:12	EPA 3050B	1,6010D	MP
Potassium, Total	119	J	mg/kg	249	14.4	2	10/04/21 16:11	10/05/21 18:12	EPA 3050B	1,6010D	MP
Selenium, Total	ND		mg/kg	2.00	0.257	2	10/04/21 16:11	10/05/21 18:12	EPA 3050B	1,6010D	MP
Silver, Total	0.738	J	mg/kg	0.998	0.282	2	10/04/21 16:11	10/05/21 18:12	EPA 3050B	1,6010D	MP
Sodium, Total	81.4	J	mg/kg	200	3.14	2	10/04/21 16:11	10/05/21 18:12	EPA 3050B	1,6010D	MP
Thallium, Total	ND		mg/kg	2.00	0.314	2	10/04/21 16:11	10/05/21 18:12	EPA 3050B	1,6010D	MP
Vanadium, Total	2.83		mg/kg	0.998	0.202	2	10/04/21 16:11	10/05/21 18:12	EPA 3050B	1,6010D	MP
Zinc, Total	22.6		mg/kg	4.99	0.292	2	10/04/21 16:11	10/05/21 18:12	EPA 3050B	1,6010D	MP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.7		mg/kg	1.0	1.1	1		10/07/21 12:45	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-03
Client ID: EP45_ -3
Sample Location: BROOKLYN, NY
Date Collected: 10/01/21 14:20
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	561		mg/kg	9.47	2.56	2	10/04/21 16:11	10/05/21 19:27	EPA 3050B	1,6010D	MP
Antimony, Total	ND		mg/kg	4.73	0.360	2	10/04/21 16:11	10/05/21 19:27	EPA 3050B	1,6010D	MP
Arsenic, Total	0.445	J	mg/kg	0.947	0.197	2	10/04/21 16:11	10/05/21 19:27	EPA 3050B	1,6010D	MP
Barium, Total	8.44		mg/kg	0.947	0.165	2	10/04/21 16:11	10/05/21 19:27	EPA 3050B	1,6010D	MP
Beryllium, Total	0.038	J	mg/kg	0.473	0.031	2	10/04/21 16:11	10/05/21 19:27	EPA 3050B	1,6010D	MP
Cadmium, Total	ND		mg/kg	0.947	0.093	2	10/04/21 16:11	10/05/21 19:27	EPA 3050B	1,6010D	MP
Calcium, Total	956		mg/kg	9.47	3.31	2	10/04/21 16:11	10/05/21 19:27	EPA 3050B	1,6010D	MP
Chromium, Total	2.66		mg/kg	0.947	0.091	2	10/04/21 16:11	10/05/21 19:27	EPA 3050B	1,6010D	MP
Cobalt, Total	0.577	J	mg/kg	1.89	0.157	2	10/04/21 16:11	10/05/21 19:27	EPA 3050B	1,6010D	MP
Copper, Total	2.23		mg/kg	0.947	0.244	2	10/04/21 16:11	10/05/21 19:27	EPA 3050B	1,6010D	MP
Iron, Total	1290		mg/kg	4.73	0.855	2	10/04/21 16:11	10/05/21 19:27	EPA 3050B	1,6010D	MP
Lead, Total	10.5		mg/kg	4.73	0.254	2	10/04/21 16:11	10/05/21 19:27	EPA 3050B	1,6010D	MP
Magnesium, Total	386		mg/kg	9.47	1.46	2	10/04/21 16:11	10/05/21 19:27	EPA 3050B	1,6010D	MP
Manganese, Total	13.6		mg/kg	0.947	0.150	2	10/04/21 16:11	10/05/21 19:27	EPA 3050B	1,6010D	MP
Mercury, Total	ND		mg/kg	0.082	0.053	1	10/04/21 16:22	10/04/21 20:01	EPA 7471B	1,7471B	AC
Nickel, Total	1.73	J	mg/kg	2.37	0.229	2	10/04/21 16:11	10/05/21 19:27	EPA 3050B	1,6010D	MP
Potassium, Total	135	J	mg/kg	237	13.6	2	10/04/21 16:11	10/05/21 19:27	EPA 3050B	1,6010D	MP
Selenium, Total	ND		mg/kg	1.89	0.244	2	10/04/21 16:11	10/05/21 19:27	EPA 3050B	1,6010D	MP
Silver, Total	ND		mg/kg	0.947	0.268	2	10/04/21 16:11	10/05/21 19:27	EPA 3050B	1,6010D	MP
Sodium, Total	431		mg/kg	189	2.98	2	10/04/21 16:11	10/05/21 19:27	EPA 3050B	1,6010D	MP
Thallium, Total	ND		mg/kg	1.89	0.298	2	10/04/21 16:11	10/05/21 19:27	EPA 3050B	1,6010D	MP
Vanadium, Total	2.73		mg/kg	0.947	0.192	2	10/04/21 16:11	10/05/21 19:27	EPA 3050B	1,6010D	MP
Zinc, Total	23.5		mg/kg	4.73	0.277	2	10/04/21 16:11	10/05/21 19:27	EPA 3050B	1,6010D	MP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.7		mg/kg	1.0	1.0	1		10/07/21 12:45	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-04
Client ID: DUP01_100121
Sample Location: BROOKLYN, NY
Date Collected: 10/01/21 00:00
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	703		mg/kg	9.97	2.69	2	10/04/21 16:11	10/05/21 19:32	EPA 3050B	1,6010D	MP
Antimony, Total	ND		mg/kg	4.99	0.379	2	10/04/21 16:11	10/05/21 19:32	EPA 3050B	1,6010D	MP
Arsenic, Total	0.439	J	mg/kg	0.997	0.207	2	10/04/21 16:11	10/05/21 19:32	EPA 3050B	1,6010D	MP
Barium, Total	10.4		mg/kg	0.997	0.174	2	10/04/21 16:11	10/05/21 19:32	EPA 3050B	1,6010D	MP
Beryllium, Total	ND		mg/kg	0.499	0.033	2	10/04/21 16:11	10/05/21 19:32	EPA 3050B	1,6010D	MP
Cadmium, Total	ND		mg/kg	0.997	0.098	2	10/04/21 16:11	10/05/21 19:32	EPA 3050B	1,6010D	MP
Calcium, Total	1310		mg/kg	9.97	3.49	2	10/04/21 16:11	10/05/21 19:32	EPA 3050B	1,6010D	MP
Chromium, Total	2.76		mg/kg	0.997	0.096	2	10/04/21 16:11	10/05/21 19:32	EPA 3050B	1,6010D	MP
Cobalt, Total	0.638	J	mg/kg	1.99	0.166	2	10/04/21 16:11	10/05/21 19:32	EPA 3050B	1,6010D	MP
Copper, Total	2.58		mg/kg	0.997	0.257	2	10/04/21 16:11	10/05/21 19:32	EPA 3050B	1,6010D	MP
Iron, Total	1470		mg/kg	4.99	0.900	2	10/04/21 16:11	10/05/21 19:32	EPA 3050B	1,6010D	MP
Lead, Total	12.4		mg/kg	4.99	0.267	2	10/04/21 16:11	10/05/21 19:32	EPA 3050B	1,6010D	MP
Magnesium, Total	440		mg/kg	9.97	1.54	2	10/04/21 16:11	10/05/21 19:32	EPA 3050B	1,6010D	MP
Manganese, Total	15.3		mg/kg	0.997	0.158	2	10/04/21 16:11	10/05/21 19:32	EPA 3050B	1,6010D	MP
Mercury, Total	ND		mg/kg	0.098	0.064	1	10/04/21 16:22	10/04/21 20:05	EPA 7471B	1,7471B	AC
Nickel, Total	1.93	J	mg/kg	2.49	0.241	2	10/04/21 16:11	10/05/21 19:32	EPA 3050B	1,6010D	MP
Potassium, Total	159	J	mg/kg	249	14.4	2	10/04/21 16:11	10/05/21 19:32	EPA 3050B	1,6010D	MP
Selenium, Total	ND		mg/kg	1.99	0.257	2	10/04/21 16:11	10/05/21 19:32	EPA 3050B	1,6010D	MP
Silver, Total	0.349	J	mg/kg	0.997	0.282	2	10/04/21 16:11	10/05/21 19:32	EPA 3050B	1,6010D	MP
Sodium, Total	450		mg/kg	199	3.14	2	10/04/21 16:11	10/05/21 19:32	EPA 3050B	1,6010D	MP
Thallium, Total	ND		mg/kg	1.99	0.314	2	10/04/21 16:11	10/05/21 19:32	EPA 3050B	1,6010D	MP
Vanadium, Total	3.11		mg/kg	0.997	0.202	2	10/04/21 16:11	10/05/21 19:32	EPA 3050B	1,6010D	MP
Zinc, Total	25.7		mg/kg	4.99	0.292	2	10/04/21 16:11	10/05/21 19:32	EPA 3050B	1,6010D	MP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.8		mg/kg	1.0	1.1	1		10/07/21 12:45	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2153655
Project Number: 170599501
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-05
Client ID: DUP02_100121
Sample Location: BROOKLYN, NY
Date Collected: 10/01/21 00:00
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	624		mg/kg	9.34	2.52	2	10/04/21 16:11	10/05/21 19:38	EPA 3050B	1,6010D	MP
Antimony, Total	ND		mg/kg	4.67	0.355	2	10/04/21 16:11	10/05/21 19:38	EPA 3050B	1,6010D	MP
Arsenic, Total	0.458	J	mg/kg	0.934	0.194	2	10/04/21 16:11	10/05/21 19:38	EPA 3050B	1,6010D	MP
Barium, Total	12.0		mg/kg	0.934	0.162	2	10/04/21 16:11	10/05/21 19:38	EPA 3050B	1,6010D	MP
Beryllium, Total	ND		mg/kg	0.467	0.031	2	10/04/21 16:11	10/05/21 19:38	EPA 3050B	1,6010D	MP
Cadmium, Total	ND		mg/kg	0.934	0.092	2	10/04/21 16:11	10/05/21 19:38	EPA 3050B	1,6010D	MP
Calcium, Total	1620		mg/kg	9.34	3.27	2	10/04/21 16:11	10/05/21 19:38	EPA 3050B	1,6010D	MP
Chromium, Total	2.97		mg/kg	0.934	0.090	2	10/04/21 16:11	10/05/21 19:38	EPA 3050B	1,6010D	MP
Cobalt, Total	0.598	J	mg/kg	1.87	0.155	2	10/04/21 16:11	10/05/21 19:38	EPA 3050B	1,6010D	MP
Copper, Total	2.48		mg/kg	0.934	0.241	2	10/04/21 16:11	10/05/21 19:38	EPA 3050B	1,6010D	MP
Iron, Total	1430		mg/kg	4.67	0.844	2	10/04/21 16:11	10/05/21 19:38	EPA 3050B	1,6010D	MP
Lead, Total	13.9		mg/kg	4.67	0.250	2	10/04/21 16:11	10/05/21 19:38	EPA 3050B	1,6010D	MP
Magnesium, Total	381		mg/kg	9.34	1.44	2	10/04/21 16:11	10/05/21 19:38	EPA 3050B	1,6010D	MP
Manganese, Total	15.3		mg/kg	0.934	0.148	2	10/04/21 16:11	10/05/21 19:38	EPA 3050B	1,6010D	MP
Mercury, Total	ND		mg/kg	0.10	0.065	1	10/04/21 16:22	10/04/21 20:14	EPA 7471B	1,7471B	AC
Nickel, Total	1.83	J	mg/kg	2.34	0.226	2	10/04/21 16:11	10/05/21 19:38	EPA 3050B	1,6010D	MP
Potassium, Total	125	J	mg/kg	234	13.4	2	10/04/21 16:11	10/05/21 19:38	EPA 3050B	1,6010D	MP
Selenium, Total	ND		mg/kg	1.87	0.241	2	10/04/21 16:11	10/05/21 19:38	EPA 3050B	1,6010D	MP
Silver, Total	0.542	J	mg/kg	0.934	0.264	2	10/04/21 16:11	10/05/21 19:38	EPA 3050B	1,6010D	MP
Sodium, Total	84.5	J	mg/kg	187	2.94	2	10/04/21 16:11	10/05/21 19:38	EPA 3050B	1,6010D	MP
Thallium, Total	ND		mg/kg	1.87	0.294	2	10/04/21 16:11	10/05/21 19:38	EPA 3050B	1,6010D	MP
Vanadium, Total	2.98		mg/kg	0.934	0.190	2	10/04/21 16:11	10/05/21 19:38	EPA 3050B	1,6010D	MP
Zinc, Total	26.6		mg/kg	4.67	0.274	2	10/04/21 16:11	10/05/21 19:38	EPA 3050B	1,6010D	MP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	3.0		mg/kg	1.0	1.0	1		10/07/21 12:45	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1554177-1										
Aluminum, Total	4.64		mg/kg	4.00	1.08	1	10/04/21 16:11	10/05/21 16:10	1,6010D	MP
Antimony, Total	ND		mg/kg	2.00	0.152	1	10/04/21 16:11	10/05/21 16:10	1,6010D	MP
Arsenic, Total	ND		mg/kg	0.400	0.083	1	10/04/21 16:11	10/05/21 16:10	1,6010D	MP
Barium, Total	ND		mg/kg	0.400	0.070	1	10/04/21 16:11	10/05/21 16:10	1,6010D	MP
Beryllium, Total	ND		mg/kg	0.200	0.013	1	10/04/21 16:11	10/05/21 16:10	1,6010D	MP
Cadmium, Total	ND		mg/kg	0.400	0.039	1	10/04/21 16:11	10/05/21 16:10	1,6010D	MP
Calcium, Total	ND		mg/kg	4.00	1.40	1	10/04/21 16:11	10/05/21 16:10	1,6010D	MP
Chromium, Total	ND		mg/kg	0.400	0.038	1	10/04/21 16:11	10/05/21 16:10	1,6010D	MP
Cobalt, Total	ND		mg/kg	0.800	0.066	1	10/04/21 16:11	10/05/21 16:10	1,6010D	MP
Copper, Total	ND		mg/kg	0.400	0.103	1	10/04/21 16:11	10/05/21 16:10	1,6010D	MP
Iron, Total	10.2		mg/kg	2.00	0.361	1	10/04/21 16:11	10/05/21 16:10	1,6010D	MP
Lead, Total	ND		mg/kg	2.00	0.107	1	10/04/21 16:11	10/05/21 16:10	1,6010D	MP
Magnesium, Total	1.01	J	mg/kg	4.00	0.616	1	10/04/21 16:11	10/05/21 16:10	1,6010D	MP
Manganese, Total	0.320	J	mg/kg	0.400	0.064	1	10/04/21 16:11	10/05/21 16:10	1,6010D	MP
Nickel, Total	ND		mg/kg	1.00	0.097	1	10/04/21 16:11	10/05/21 16:10	1,6010D	MP
Potassium, Total	ND		mg/kg	100	5.76	1	10/04/21 16:11	10/05/21 16:10	1,6010D	MP
Selenium, Total	ND		mg/kg	0.800	0.103	1	10/04/21 16:11	10/05/21 16:10	1,6010D	MP
Silver, Total	ND		mg/kg	0.400	0.113	1	10/04/21 16:11	10/05/21 16:10	1,6010D	MP
Sodium, Total	10.9	J	mg/kg	80.0	1.26	1	10/04/21 16:11	10/05/21 16:10	1,6010D	MP
Thallium, Total	ND		mg/kg	0.800	0.126	1	10/04/21 16:11	10/05/21 16:10	1,6010D	MP
Vanadium, Total	ND		mg/kg	0.400	0.081	1	10/04/21 16:11	10/05/21 16:10	1,6010D	MP
Zinc, Total	ND		mg/kg	2.00	0.117	1	10/04/21 16:11	10/05/21 16:10	1,6010D	MP

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1554179-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/04/21 16:22	10/04/21 18:42	1,7471B	AC

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153655

Report Date: 10/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1554177-2 SRM Lot Number: D109-540								
Aluminum, Total	70		-		50-150	-		
Antimony, Total	169		-		19-250	-		
Arsenic, Total	97		-		70-130	-		
Barium, Total	97		-		75-125	-		
Beryllium, Total	106		-		75-125	-		
Cadmium, Total	101		-		75-125	-		
Calcium, Total	99		-		73-128	-		
Chromium, Total	102		-		70-130	-		
Cobalt, Total	100		-		75-125	-		
Copper, Total	97		-		75-125	-		
Iron, Total	94		-		35-165	-		
Lead, Total	96		-		72-128	-		
Magnesium, Total	86		-		62-138	-		
Manganese, Total	99		-		74-126	-		
Nickel, Total	103		-		70-130	-		
Potassium, Total	84		-		59-141	-		
Selenium, Total	98		-		68-132	-		
Silver, Total	101		-		68-131	-		
Sodium, Total	75		-		35-165	-		
Thallium, Total	96		-		68-131	-		
Vanadium, Total	96		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153655

Report Date: 10/07/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1554177-2 SRM Lot Number: D109-540					
Zinc, Total	95	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1554179-2 SRM Lot Number: D109-540					
Mercury, Total	98	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1554177-3 QC Sample: L2153649-01 Client ID: MS Sample												
Aluminum, Total	3970B	161	4010	**25**	Q	-	-		75-125	-		20
Antimony, Total	ND	40.3	31.4	78		-	-		75-125	-		20
Arsenic, Total	1.97	9.66	9.62	79		-	-		75-125	-		20
Barium, Total	41.6	161	176	83		-	-		75-125	-		20
Beryllium, Total	0.516	4.03	4.11	89		-	-		75-125	-		20
Cadmium, Total	0.347J	4.27	3.68	86		-	-		75-125	-		20
Calcium, Total	6670	805	9570	**360**	Q	-	-		75-125	-		20
Chromium, Total	11.8	16.1	24.8	81		-	-		75-125	-		20
Cobalt, Total	9.73	40.3	39.7	**74**	Q	-	-		75-125	-		20
Copper, Total	14.4	20.1	30.7	81		-	-		75-125	-		20
Iron, Total	15200B	80.5	13400	**0**	Q	-	-		75-125	-		20
Lead, Total	6.57	42.7	39.1	76		-	-		75-125	-		20
Magnesium, Total	2510	805	3040	**66**	Q	-	-		75-125	-		20
Manganese, Total	833	40.3	767	**0**	Q	-	-		75-125	-		20
Nickel, Total	15.9	40.3	43.4	**68**	Q	-	-		75-125	-		20
Potassium, Total	677	805	1360	85		-	-		75-125	-		20
Selenium, Total	0.339J	9.66	7.17	**74**	Q	-	-		75-125	-		20
Silver, Total	ND	24.2	21.8	90		-	-		75-125	-		20
Sodium, Total	81.1J	805	811	101		-	-		75-125	-		20
Thallium, Total	0.258J	9.66	7.51	78		-	-		75-125	-		20
Vanadium, Total	18.6	40.3	50.8	80		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1554177-3 QC Sample: L2153649-01 Client ID: MS Sample										
Zinc, Total	29.3	40.3	58.6	**73**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1554179-3 QC Sample: L2153649-01 Client ID: MS Sample										
Mercury, Total	ND	0.155	0.154	99		-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1554177-4 QC Sample: L2153649-01 Client ID: DUP Sample						
Aluminum, Total	3970B	3530	mg/kg	12		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	1.97	1.95	mg/kg	1		20
Barium, Total	41.6	37.9	mg/kg	9		20
Beryllium, Total	0.516	0.474	mg/kg	8		20
Cadmium, Total	0.347J	0.344J	mg/kg	NC		20
Calcium, Total	6670	7380	mg/kg	10		20
Chromium, Total	11.8	10.9	mg/kg	8		20
Cobalt, Total	9.73	10.6	mg/kg	9		20
Copper, Total	14.4	15.9	mg/kg	10		20
Iron, Total	15200B	13800	mg/kg	10		20
Lead, Total	6.57	6.54	mg/kg	0		20
Magnesium, Total	2510	2280	mg/kg	10		20
Manganese, Total	833	914	mg/kg	9		20
Nickel, Total	15.9	17.1	mg/kg	7		20
Potassium, Total	677	613	mg/kg	10		20
Selenium, Total	0.339J	0.409J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	81.1J	68.5J	mg/kg	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153655

Report Date: 10/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1554177-4 QC Sample: L2153649-01 Client ID: DUP Sample					
Thallium, Total	0.258J	0.401J	mg/kg	NC	20
Vanadium, Total	18.6	17.7	mg/kg	5	20
Zinc, Total	29.3	28.2	mg/kg	4	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1554179-4 QC Sample: L2153649-01 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/kg	NC	20

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2153655
Report Date: 10/07/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1554177-6 QC Sample: L2153649-01 Client ID: DUP Sample						
Aluminum, Total	3970B	4700	mg/kg	18		20
Barium, Total	41.6	49.6	mg/kg	19		20
Calcium, Total	6670	7980	mg/kg	20		20
Iron, Total	15200B	18700	mg/kg	**23**	Q	20
Magnesium, Total	2510	3080	mg/kg	**23**	Q	20
Manganese, Total	833	1010	mg/kg	**21**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-01
Client ID: EP36_ -3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/01/21 14:00
Date Received: 10/01/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.2		%	0.100	NA	1	-	10/02/21 12:28	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	10/06/21 14:00	10/07/21 11:30	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	1.01	0.202	1	10/04/21 14:37	10/07/21 12:45	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-02
Client ID: EP44_ -3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/01/21 14:10
Date Received: 10/01/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.4		%	0.100	NA	1	-	10/02/21 12:28	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.3	0.27	1	10/06/21 14:00	10/07/21 11:31	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	1.05	0.209	1	10/04/21 14:37	10/07/21 12:45	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-03
Client ID: EP45_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 14:20
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.9		%	0.100	NA	1	-	10/02/21 12:39	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	10/06/21 14:00	10/07/21 11:32	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	1.00	0.200	1	10/04/21 14:37	10/07/21 12:45	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-04
Client ID: DUP01_100121
Sample Location: BROOKLYN, NY

Date Collected: 10/01/21 00:00
Date Received: 10/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.2		%	0.100	NA	1	-	10/02/21 12:39	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	10/06/21 14:00	10/07/21 11:33	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	1.05	0.210	1	10/04/21 14:37	10/07/21 12:45	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

SAMPLE RESULTS

Lab ID: L2153655-05
Client ID: DUP02_100121
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 10/01/21 00:00
Date Received: 10/01/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.8		%	0.100	NA	1	-	10/02/21 12:39	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	10/06/21 14:00	10/07/21 11:34	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	1.03	0.206	1	10/04/21 14:37	10/07/21 12:45	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1554005-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	10/04/21 14:37	10/07/21 12:45	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1555209-1										
Cyanide, Total	ND		mg/kg	0.87	0.18	1	10/06/21 14:00	10/07/21 11:18	1,9010C/9012B	CR

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153655

Report Date: 10/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1554005-2								
Chromium, Hexavalent	87		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1555209-2 WG1555209-3								
Cyanide, Total	**56**	Q	**66**	Q	80-120	16		35

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1554005-4 QC Sample: L2153655-02 Client ID: EP44_ -3												
Chromium, Hexavalent	ND	1030	1070	104		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1555209-4 WG1555209-5 QC Sample: L2153033-07 Client ID: MS Sample												
Cyanide, Total	ND	11	11	100		11	100		75-125	0		35

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2153655

Report Date: 10/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1553674-1 QC Sample: L2153562-01 Client ID: DUP Sample						
Solids, Total	95.6	95.9	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 03-05 QC Batch ID: WG1553677-1 QC Sample: L2153669-01 Client ID: DUP Sample						
Solids, Total	62.4	63.1	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1554005-6 QC Sample: L2153655-02 Client ID: EP44_ -3						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2153655-01A	Vial MeOH preserved	A	NA		4.8	Y	Absent		NYTCL-8260HLW(14)
L2153655-01B	Vial water preserved	A	NA		4.8	Y	Absent	02-OCT-21 09:18	NYTCL-8260HLW(14)
L2153655-01C	Vial water preserved	A	NA		4.8	Y	Absent	02-OCT-21 09:18	NYTCL-8260HLW(14)
L2153655-01D	Plastic 2oz unpreserved for TS	A	NA		4.8	Y	Absent		TS(7)
L2153655-01E	Plastic 120ml unpreserved	A	NA		4.8	Y	Absent		TS(7)
L2153655-01F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TRICR-CALC(30),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),CD-TI(180),NA-TI(180),K-TI(180),CA-TI(180)
L2153655-01G	Glass 120ml/4oz unpreserved	A	NA		4.8	Y	Absent		HEXCR-7196(30)
L2153655-01H	Plastic 8oz unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2153655-01J	Glass 500ml/16oz unpreserved	A	NA		4.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2153655-02A	Vial MeOH preserved	A	NA		4.8	Y	Absent		NYTCL-8260HLW(14)
L2153655-02B	Vial water preserved	A	NA		4.8	Y	Absent	02-OCT-21 09:18	NYTCL-8260HLW(14)
L2153655-02C	Vial water preserved	A	NA		4.8	Y	Absent	02-OCT-21 09:18	NYTCL-8260HLW(14)
L2153655-02D	Plastic 2oz unpreserved for TS	A	NA		4.8	Y	Absent		TS(7)
L2153655-02E	Plastic 120ml unpreserved	A	NA		4.8	Y	Absent		TS(7)
L2153655-02F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),TRICR-CALC(30),ZN-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),MG-TI(180),FE-TI(180),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2153655-02G	Glass 120ml/4oz unpreserved	A	NA		4.8	Y	Absent		HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2153655-02H	Plastic 8oz unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2153655-02J	Glass 500ml/16oz unpreserved	A	NA		4.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2153655-03A	Vial MeOH preserved	A	NA		4.8	Y	Absent		NYTCL-8260HLW(14)
L2153655-03B	Vial water preserved	A	NA		4.8	Y	Absent	02-OCT-21 09:18	NYTCL-8260HLW(14)
L2153655-03C	Vial water preserved	A	NA		4.8	Y	Absent	02-OCT-21 09:18	NYTCL-8260HLW(14)
L2153655-03D	Plastic 2oz unpreserved for TS	A	NA		4.8	Y	Absent		TS(7)
L2153655-03E	Plastic 120ml unpreserved	A	NA		4.8	Y	Absent		TS(7)
L2153655-03F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TRICR-CALC(30),AL-TI(180),NI-TI(180),TL-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2153655-03G	Glass 120ml/4oz unpreserved	A	NA		4.8	Y	Absent		HEXCR-7196(30)
L2153655-03H	Plastic 8oz unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2153655-03J	Glass 500ml/16oz unpreserved	A	NA		4.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2153655-04A	Vial MeOH preserved	A	NA		4.8	Y	Absent		NYTCL-8260HLW(14)
L2153655-04B	Vial water preserved	A	NA		4.8	Y	Absent	02-OCT-21 09:18	NYTCL-8260HLW(14)
L2153655-04C	Vial water preserved	A	NA		4.8	Y	Absent	02-OCT-21 09:18	NYTCL-8260HLW(14)
L2153655-04D	Plastic 2oz unpreserved for TS	A	NA		4.8	Y	Absent		TS(7)
L2153655-04E	Plastic 120ml unpreserved	A	NA		4.8	Y	Absent		TS(7)
L2153655-04F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),CR-TI(180),AL-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),NA-TI(180),CD-TI(180),K-TI(180),CA-TI(180)
L2153655-04G	Glass 120ml/4oz unpreserved	A	NA		4.8	Y	Absent		HEXCR-7196(30)
L2153655-04H	Plastic 8oz unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2153655-04J	Glass 500ml/16oz unpreserved	A	NA		4.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2153655-05A	Vial MeOH preserved	A	NA		4.8	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2153655
Report Date: 10/07/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2153655-05B	Vial water preserved	A	NA		4.8	Y	Absent	02-OCT-21 09:18	NYTCL-8260HLW(14)
L2153655-05C	Vial water preserved	A	NA		4.8	Y	Absent	02-OCT-21 09:18	NYTCL-8260HLW(14)
L2153655-05D	Plastic 2oz unpreserved for TS	A	NA		4.8	Y	Absent		TS(7)
L2153655-05E	Plastic 120ml unpreserved	A	NA		4.8	Y	Absent		TS(7)
L2153655-05F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.8	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),TRICR-CALC(30),AL-TI(180),CR-TI(180),NI-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MN-TI(180),MG-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2153655-05G	Glass 120ml/4oz unpreserved	A	NA		4.8	Y	Absent		HEXCR-7196(30)
L2153655-05H	Plastic 8oz unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2153655-05J	Glass 500ml/16oz unpreserved	A	NA		4.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2153655-06A	Plastic 250ml unpreserved	A	NA		4.8	Y	Absent		HOLD-537(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2153655
Report Date: 10/07/21

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2153655
Project Number:	170599501	**Report Date:**	10/07/21

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:	1607 SURF AVENUE	**Lab Number:**	L2153655
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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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2153655
Project Number:	170599501	**Report Date:**	10/07/21

Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2153655
Project Number:	170599501	**Report Date:**	10/07/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

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, SM4500Cl-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, **LACHAT 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

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

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 1

Date Rec'd in Lab: 10/2/21

ALPHA Job #: L2153655

Client Information

Client: LANGAN
Address: 360 W 31st Street 8th Floor, NYC, NY
Phone: 212 479 5900
Fax: 212 479 5444
Email: KSemon@Langan.com

Project Information

Project Name: 1607 Surf Avenue
Project Location: Brooklyn, NY
Project #: 170594501
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date: All Analyses to be submitted on a 5-day TAT including PFAS
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☒ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ 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:

CC: LESmail@langan.com; Datamanagement@langan.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs, SVOCs	TCL Pesticides	TAL metals	TCN	Hex / Trivalent Chromium	PFAS	1,4-dioxane	Herbs, PCBs	Sample Specific Comments	Total Bottle
53655-01	EP36_-3	10/01/21	14:00	S	AR										
-02	EP44_-3		14:10		AR										
-03	EP45_-3		14:20		AR										
-04	DUP01_100121		[redacted]		AR										
-05	DUP02_100121		[redacted]		AR										

Container Type
Preservative

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; 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

Relinquished By:	Date/Time	Received By:	Date/Time
Ali Reach (Langan)	10/01/21 16:08	[illegible]	10/1/21 16:08
[illegible]	10/1/21 1550	[illegible]	10/1 2000
[illegible]	10/1	[illegible]	10/1/21 22:30
[illegible]	10/2/21 01:15	[illegible]	10/2/21 01:15

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2154875
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Kimberly Semon
Phone:	(212) 479-5486
Project Name:	1607 SURF AVE.
Project Number:	170599501
Report Date:	10/11/21

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Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2154875
Report Date: 10/11/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2154875-01	EP21_-4	SOIL	BROOKLYN, NY	10/07/21 14:00	10/07/21
L2154875-02	EPSW11_-4	SOIL	BROOKLYN, NY	10/07/21 14:13	10/07/21
L2154875-03	EP30_-4	SOIL	BROOKLYN, NY	10/07/21 14:17	10/07/21
L2154875-04	EPSW12_-4	SOIL	BROOKLYN, NY	10/07/21 14:26	10/07/21
L2154875-05	EP29_-4	SOIL	BROOKLYN, NY	10/07/21 14:31	10/07/21
L2154875-06	EP38_-4	SOIL	BROOKLYN, NY	10/07/21 14:45	10/07/21
L2154875-07	EP37_-4	SOIL	BROOKLYN, NY	10/07/21 14:50	10/07/21
L2154875-08	EP28_-4	SOIL	BROOKLYN, NY	10/07/21 15:03	10/07/21

Project Name:	1607 SURF AVE.	**Lab Number:**	L2154875
Project Number:	170599501	**Report Date:**	10/11/21

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:	1607 SURF AVE.	**Lab Number:**	L2154875
Project Number:	170599501	**Report Date:**	10/11/21

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.

Semivolatile Organics

The WG1556116-2/-3 LCS/LCSD recoveries, associated with L2154875-02 and -04, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

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: Caitlin Walukevich

Title: Technical Director/Representative Date: 10/11/21

ORGANICS

SEMIVOLATILES

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2154875
Report Date: 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-02
Client ID: EPSW11_-4
Sample Location: BROOKLYN, NY

Date Collected: 10/07/21 14:13
Date Received: 10/07/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/09/21 06:36
Analyst: IM
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 10/08/21 09:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	620		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	7500		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	490		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2154875

Project Number: 170599501 **Report Date:** 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-02 Date Collected: 10/07/21 14:13

Client ID: EPSW11_-4 Date Received: 10/07/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	4000		ug/kg	120	22.	1
Benzo(a)pyrene	3700		ug/kg	160	49.	1
Benzo(b)fluoranthene	4900		ug/kg	120	34.	1
Benzo(k)fluoranthene	1500		ug/kg	120	32.	1
Chrysene	3300		ug/kg	120	21.	1
Acenaphthylene	490		ug/kg	160	31.	1
Anthracene	1400		ug/kg	120	39.	1
Benzo(ghi)perylene	2000		ug/kg	160	24.	1
Fluorene	870		ug/kg	200	19.	1
Phenanthrene	5300		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	480		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	2300		ug/kg	160	28.	1
Pyrene	6000		ug/kg	120	20.	1
Biphenyl	56	J	ug/kg	460	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	83.	1
Dibenzofuran	470		ug/kg	200	19.	1
2-Methylnaphthalene	180	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	960	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1

Project Name: 1607 SURF AVE.
Lab Number: L2154875
Project Number: 170599501
Report Date: 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-02
Client ID: EPSW11_-4
Sample Location: BROOKLYN, NY
Date Collected: 10/07/21 14:13
Date Received: 10/07/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	650	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	640		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	48		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	74		10-136
4-Terphenyl-d14	62		18-120

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2154875
Report Date: 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-04
Client ID: EPSW12_-4
Sample Location: BROOKLYN, NY

Date Collected: 10/07/21 14:26
Date Received: 10/07/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/09/21 06:13
Analyst: IM
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 10/08/21 09:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	88	J	ug/kg	180	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	26.	1
Hexachlorobenzene	ND		ug/kg	130	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	40.	1
1,3-Dichlorobenzene	ND		ug/kg	220	39.	1
1,4-Dichlorobenzene	ND		ug/kg	220	39.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	60.	1
2,4-Dinitrotoluene	ND		ug/kg	220	45.	1
2,6-Dinitrotoluene	ND		ug/kg	220	38.	1
Fluoranthene	2900		ug/kg	130	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	34.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	38.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	33.	1
Hexachlorocyclopentadiene	ND		ug/kg	640	200	1
Hexachloroethane	ND		ug/kg	180	36.	1
Isophorone	ND		ug/kg	200	29.	1
Naphthalene	73	J	ug/kg	220	27.	1
Nitrobenzene	ND		ug/kg	200	33.	1
NDPA/DPA	ND		ug/kg	180	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	35.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	78.	1
Butyl benzyl phthalate	ND		ug/kg	220	57.	1
Di-n-butylphthalate	ND		ug/kg	220	43.	1
Di-n-octylphthalate	ND		ug/kg	220	76.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2154875

Project Number: 170599501 **Report Date:** 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-04 Date Collected: 10/07/21 14:26

Client ID: EPSW12_-4 Date Received: 10/07/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	21.	1
Dimethyl phthalate	ND		ug/kg	220	47.	1
Benzo(a)anthracene	1400		ug/kg	130	25.	1
Benzo(a)pyrene	1300		ug/kg	180	55.	1
Benzo(b)fluoranthene	1700		ug/kg	130	38.	1
Benzo(k)fluoranthene	590		ug/kg	130	36.	1
Chrysene	1300		ug/kg	130	23.	1
Acenaphthylene	360		ug/kg	180	35.	1
Anthracene	360		ug/kg	130	44.	1
Benzo(ghi)perylene	750		ug/kg	180	26.	1
Fluorene	190	J	ug/kg	220	22.	1
Phenanthrene	2000		ug/kg	130	27.	1
Dibenzo(a,h)anthracene	180		ug/kg	130	26.	1
Indeno(1,2,3-cd)pyrene	880		ug/kg	180	31.	1
Pyrene	2200		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	510	52.	1
4-Chloroaniline	ND		ug/kg	220	41.	1
2-Nitroaniline	ND		ug/kg	220	43.	1
3-Nitroaniline	ND		ug/kg	220	42.	1
4-Nitroaniline	ND		ug/kg	220	93.	1
Dibenzofuran	120	J	ug/kg	220	21.	1
2-Methylnaphthalene	42	J	ug/kg	270	27.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	28.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	43.	1
p-Chloro-m-cresol	ND		ug/kg	220	34.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	36.	1
2,4-Dimethylphenol	ND		ug/kg	220	74.	1
2-Nitrophenol	ND		ug/kg	480	84.	1
4-Nitrophenol	ND		ug/kg	310	92.	1
2,4-Dinitrophenol	ND		ug/kg	1100	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	580	110	1
Pentachlorophenol	ND		ug/kg	180	49.	1
Phenol	ND		ug/kg	220	34.	1
2-Methylphenol	ND		ug/kg	220	35.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	35.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2154875

Project Number: 170599501 **Report Date:** 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-04 Date Collected: 10/07/21 14:26

Client ID: EPSW12_-4 Date Received: 10/07/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	43.	1
Benzoic Acid	ND		ug/kg	730	230	1
Benzyl Alcohol	ND		ug/kg	220	69.	1
Carbazole	210	J	ug/kg	220	22.	1
1,4-Dioxane	ND		ug/kg	34	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	33		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	60		10-136
4-Terphenyl-d14	51		18-120

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2154875
Report Date: 10/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/08/21 21:38
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 10/08/21 09:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04 Batch: WG1556116-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2154875
Report Date: 10/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/08/21 21:38
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 10/08/21 09:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04 Batch: WG1556116-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2154875
Report Date: 10/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/08/21 21:38
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 10/08/21 09:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04 Batch: WG1556116-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	70		10-136
4-Terphenyl-d14	67		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2154875

Report Date: 10/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04 Batch: WG1556116-2 WG1556116-3								
Acenaphthene	56		60		31-137	7		50
1,2,4-Trichlorobenzene	58		63		38-107	8		50
Hexachlorobenzene	61		63		40-140	3		50
Bis(2-chloroethyl)ether	56		59		40-140	5		50
2-Chloronaphthalene	62		64		40-140	3		50
1,2-Dichlorobenzene	57		64		40-140	12		50
1,3-Dichlorobenzene	57		64		40-140	12		50
1,4-Dichlorobenzene	58		64		28-104	10		50
3,3'-Dichlorobenzidine	55		55		40-140	0		50
2,4-Dinitrotoluene	62		67		40-132	8		50
2,6-Dinitrotoluene	71		71		40-140	0		50
Fluoranthene	59		65		40-140	10		50
4-Chlorophenyl phenyl ether	61		65		40-140	6		50
4-Bromophenyl phenyl ether	63		68		40-140	8		50
Bis(2-chloroisopropyl)ether	80		88		40-140	10		50
Bis(2-chloroethoxy)methane	60		63		40-117	5		50
Hexachlorobutadiene	61		66		40-140	8		50
Hexachlorocyclopentadiene	52		53		40-140	2		50
Hexachloroethane	62		68		40-140	9		50
Isophorone	59		64		40-140	8		50
Naphthalene	61		64		40-140	5		50
Nitrobenzene	67		71		40-140	6		50
NDPA/DPA	64		68		36-157	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2154875

Report Date: 10/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04 Batch: WG1556116-2 WG1556116-3								
n-Nitrosodi-n-propylamine	63		66		32-121	5		50
Bis(2-ethylhexyl)phthalate	77		84		40-140	9		50
Butyl benzyl phthalate	65		70		40-140	7		50
Di-n-butylphthalate	66		71		40-140	7		50
Di-n-octylphthalate	74		81		40-140	9		50
Diethyl phthalate	65		67		40-140	3		50
Dimethyl phthalate	62		63		40-140	2		50
Benzo(a)anthracene	62		67		40-140	8		50
Benzo(a)pyrene	65		71		40-140	9		50
Benzo(b)fluoranthene	63		67		40-140	6		50
Benzo(k)fluoranthene	61		69		40-140	12		50
Chrysene	59		63		40-140	7		50
Acenaphthylene	65		69		40-140	6		50
Anthracene	57		62		40-140	8		50
Benzo(ghi)perylene	60		66		40-140	10		50
Fluorene	63		67		40-140	6		50
Phenanthrene	56		63		40-140	12		50
Dibenzo(a,h)anthracene	57		62		40-140	8		50
Indeno(1,2,3-cd)pyrene	58		63		40-140	8		50
Pyrene	58		64		35-142	10		50
Biphenyl	60		62		37-127	3		50
4-Chloroaniline	59		54		40-140	9		50
2-Nitroaniline	71		75		47-134	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2154875

Report Date: 10/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04 Batch: WG1556116-2 WG1556116-3								
3-Nitroaniline	58		58		26-129	0		50
4-Nitroaniline	60		60		41-125	0		50
Dibenzofuran	63		66		40-140	5		50
2-Methylnaphthalene	60		63		40-140	5		50
1,2,4,5-Tetrachlorobenzene	61		63		40-117	3		50
Acetophenone	56		61		14-144	9		50
2,4,6-Trichlorophenol	69		71		30-130	3		50
p-Chloro-m-cresol	72		74		26-103	3		50
2-Chlorophenol	64		70		25-102	9		50
2,4-Dichlorophenol	68		72		30-130	6		50
2,4-Dimethylphenol	66		71		30-130	7		50
2-Nitrophenol	72		77		30-130	7		50
4-Nitrophenol	79		82		11-114	4		50
2,4-Dinitrophenol	45		46		4-130	2		50
4,6-Dinitro-o-cresol	66		69		10-130	4		50
Pentachlorophenol	53		56		17-109	6		50
Phenol	58		63		26-90	8		50
2-Methylphenol	66		71		30-130.	7		50
3-Methylphenol/4-Methylphenol	64		68		30-130	6		50
2,4,5-Trichlorophenol	71		72		30-130	1		50
Benzoic Acid	**0**	Q	**0**	Q	10-110	NC		50
Benzyl Alcohol	66		68		40-140	3		50
Carbazole	58		65		54-128	11		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2154875

Report Date: 10/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04 Batch: WG1556116-2 WG1556116-3								
1,4-Dioxane	45		52		40-140	14		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		77		25-120
Phenol-d6	69		75		10-120
Nitrobenzene-d5	69		74		23-120
2-Fluorobiphenyl	65		68		30-120
2,4,6-Tribromophenol	68		69		10-136
4-Terphenyl-d14	59		64		18-120

PESTICIDES

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2154875
Report Date: 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-01
Client ID: EP21_-4
Sample Location: BROOKLYN, NY

Date Collected: 10/07/21 14:00
Date Received: 10/07/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/09/21 11:00
Analyst: AR
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 10/08/21 08:26
Cleanup Method: EPA 3620B
Cleanup Date: 10/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.83	0.358	1	A
Lindane	ND		ug/kg	0.762	0.340	1	A
Alpha-BHC	ND		ug/kg	0.762	0.216	1	A
Beta-BHC	ND		ug/kg	1.83	0.693	1	A
Heptachlor	ND		ug/kg	0.914	0.410	1	A
Aldrin	ND		ug/kg	1.83	0.644	1	A
Heptachlor epoxide	ND		ug/kg	3.43	1.03	1	A
Endrin	ND		ug/kg	0.762	0.312	1	A
Endrin aldehyde	ND		ug/kg	2.28	0.800	1	A
Endrin ketone	ND		ug/kg	1.83	0.471	1	A
Dieldrin	ND		ug/kg	1.14	0.571	1	A
4,4'-DDE	4.34		ug/kg	1.83	0.423	1	B
4,4'-DDD	1.94		ug/kg	1.83	0.652	1	A
4,4'-DDT	3.50		ug/kg	3.43	1.47	1	A
Endosulfan I	ND		ug/kg	1.83	0.432	1	A
Endosulfan II	ND		ug/kg	1.83	0.611	1	A
Endosulfan sulfate	ND		ug/kg	0.762	0.363	1	A
Methoxychlor	ND		ug/kg	3.43	1.07	1	A
Toxaphene	ND		ug/kg	34.3	9.60	1	A
cis-Chlordane	ND		ug/kg	2.28	0.637	1	A
trans-Chlordane	ND	IP	ug/kg	2.28	0.603	1	B
Chlordane	ND		ug/kg	15.2	6.06	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2154875

Project Number: 170599501 **Report Date:** 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-01 Date Collected: 10/07/21 14:00

Client ID: EP21_-4 Date Received: 10/07/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2154875
Report Date: 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-02
Client ID: EPSW11_-4
Sample Location: BROOKLYN, NY

Date Collected: 10/07/21 14:13
Date Received: 10/07/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/09/21 11:11
Analyst: AR
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 10/08/21 08:26
Cleanup Method: EPA 3620B
Cleanup Date: 10/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.89	0.370	1	A
Lindane	ND		ug/kg	0.787	0.352	1	A
Alpha-BHC	ND		ug/kg	0.787	0.224	1	A
Beta-BHC	ND		ug/kg	1.89	0.716	1	A
Heptachlor	ND		ug/kg	0.945	0.424	1	A
Aldrin	ND		ug/kg	1.89	0.665	1	A
Heptachlor epoxide	1.12	JIP	ug/kg	3.54	1.06	1	B
Endrin	ND		ug/kg	0.787	0.323	1	A
Endrin aldehyde	ND		ug/kg	2.36	0.826	1	A
Endrin ketone	ND		ug/kg	1.89	0.486	1	A
Dieldrin	ND		ug/kg	1.18	0.590	1	A
4,4'-DDE	36.8	P	ug/kg	1.89	0.437	1	B
4,4'-DDD	30.8	P	ug/kg	1.89	0.674	1	B
4,4'-DDT	79.7	P	ug/kg	3.54	1.52	1	B
Endosulfan I	ND		ug/kg	1.89	0.446	1	A
Endosulfan II	ND		ug/kg	1.89	0.631	1	A
Endosulfan sulfate	ND		ug/kg	0.787	0.375	1	A
Methoxychlor	ND		ug/kg	3.54	1.10	1	A
Toxaphene	ND		ug/kg	35.4	9.92	1	A
cis-Chlordane	0.730	JIP	ug/kg	2.36	0.658	1	A
trans-Chlordane	0.690	JIP	ug/kg	2.36	0.623	1	A
Chlordane	ND		ug/kg	15.7	6.26	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2154875

Project Number: 170599501 **Report Date:** 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-02 Date Collected: 10/07/21 14:13

Client ID: EPSW11_-4 Date Received: 10/07/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	42		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	120		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2154875
Project Number: 170599501
Report Date: 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-03
Client ID: EP30_-4
Sample Location: BROOKLYN, NY

Date Collected: 10/07/21 14:17
Date Received: 10/07/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/09/21 11:22
Analyst: AR
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/08/21 08:26
Cleanup Method: EPA 3620B
Cleanup Date: 10/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.98	0.388	1	A
Lindane	ND		ug/kg	0.826	0.369	1	A
Alpha-BHC	ND		ug/kg	0.826	0.234	1	A
Beta-BHC	ND		ug/kg	1.98	0.752	1	A
Heptachlor	ND		ug/kg	0.991	0.444	1	A
Aldrin	ND		ug/kg	1.98	0.698	1	A
Heptachlor epoxide	ND		ug/kg	3.72	1.11	1	A
Endrin	ND		ug/kg	0.826	0.338	1	A
Endrin aldehyde	ND		ug/kg	2.48	0.867	1	A
Endrin ketone	ND		ug/kg	1.98	0.510	1	A
Dieldrin	ND		ug/kg	1.24	0.619	1	A
4,4'-DDE	ND		ug/kg	1.98	0.458	1	A
4,4'-DDD	ND		ug/kg	1.98	0.707	1	A
4,4'-DDT	ND		ug/kg	3.72	1.59	1	A
Endosulfan I	ND		ug/kg	1.98	0.468	1	A
Endosulfan II	ND		ug/kg	1.98	0.662	1	A
Endosulfan sulfate	ND		ug/kg	0.826	0.393	1	A
Methoxychlor	ND		ug/kg	3.72	1.16	1	A
Toxaphene	ND		ug/kg	37.2	10.4	1	A
cis-Chlordane	ND		ug/kg	2.48	0.690	1	A
trans-Chlordane	ND		ug/kg	2.48	0.654	1	A
Chlordane	ND		ug/kg	16.5	6.56	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2154875

Project Number: 170599501 **Report Date:** 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-03 Date Collected: 10/07/21 14:17

Client ID: EP30_-4 Date Received: 10/07/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	90		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2154875
Project Number: 170599501
Report Date: 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-04
Client ID: EPSW12_-4
Sample Location: BROOKLYN, NY

Date Collected: 10/07/21 14:26
Date Received: 10/07/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/09/21 11:33
Analyst: AR
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 10/08/21 08:26
Cleanup Method: EPA 3620B
Cleanup Date: 10/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.14	0.418	1	A
Lindane	ND		ug/kg	0.890	0.398	1	A
Alpha-BHC	ND		ug/kg	0.890	0.253	1	A
Beta-BHC	ND		ug/kg	2.14	0.810	1	A
Heptachlor	ND		ug/kg	1.07	0.479	1	A
Aldrin	ND		ug/kg	2.14	0.752	1	A
Heptachlor epoxide	ND		ug/kg	4.00	1.20	1	A
Endrin	ND		ug/kg	0.890	0.365	1	A
Endrin aldehyde	ND		ug/kg	2.67	0.935	1	A
Endrin ketone	ND		ug/kg	2.14	0.550	1	A
Dieldrin	ND		ug/kg	1.34	0.668	1	A
4,4'-DDE	29.0		ug/kg	2.14	0.494	1	B
4,4'-DDD	4.97		ug/kg	2.14	0.762	1	A
4,4'-DDT	64.7		ug/kg	4.00	1.72	1	B
Endosulfan I	ND		ug/kg	2.14	0.505	1	A
Endosulfan II	ND		ug/kg	2.14	0.714	1	A
Endosulfan sulfate	ND		ug/kg	0.890	0.424	1	A
Methoxychlor	ND		ug/kg	4.00	1.25	1	A
Toxaphene	ND		ug/kg	40.0	11.2	1	A
cis-Chlordane	1.39	J	ug/kg	2.67	0.744	1	A
trans-Chlordane	1.31	J	ug/kg	2.67	0.705	1	A
Chlordane	ND		ug/kg	17.8	7.08	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2154875

Project Number: 170599501 **Report Date:** 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-04 Date Collected: 10/07/21 14:26

Client ID: EPSW12_-4 Date Received: 10/07/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	103		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2154875
Project Number: 170599501
Report Date: 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-05
Client ID: EP29_-4
Sample Location: BROOKLYN, NY

Date Collected: 10/07/21 14:31
Date Received: 10/07/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/09/21 11:44
Analyst: AR
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 10/08/21 08:26
Cleanup Method: EPA 3620B
Cleanup Date: 10/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.86	0.364	1	A
Lindane	ND		ug/kg	0.774	0.346	1	A
Alpha-BHC	ND		ug/kg	0.774	0.220	1	A
Beta-BHC	ND		ug/kg	1.86	0.704	1	A
Heptachlor	ND		ug/kg	0.929	0.416	1	A
Aldrin	ND		ug/kg	1.86	0.654	1	A
Heptachlor epoxide	ND		ug/kg	3.48	1.04	1	A
Endrin	ND		ug/kg	0.774	0.317	1	A
Endrin aldehyde	ND		ug/kg	2.32	0.813	1	A
Endrin ketone	ND		ug/kg	1.86	0.478	1	A
Dieldrin	ND		ug/kg	1.16	0.580	1	A
4,4'-DDE	ND		ug/kg	1.86	0.430	1	A
4,4'-DDD	ND		ug/kg	1.86	0.663	1	A
4,4'-DDT	ND		ug/kg	3.48	1.49	1	A
Endosulfan I	ND		ug/kg	1.86	0.439	1	A
Endosulfan II	ND		ug/kg	1.86	0.621	1	A
Endosulfan sulfate	ND		ug/kg	0.774	0.368	1	A
Methoxychlor	ND		ug/kg	3.48	1.08	1	A
Toxaphene	ND		ug/kg	34.8	9.75	1	A
cis-Chlordane	ND		ug/kg	2.32	0.647	1	A
trans-Chlordane	ND		ug/kg	2.32	0.613	1	A
Chlordane	ND		ug/kg	15.5	6.15	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2154875

Project Number: 170599501 **Report Date:** 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-05 Date Collected: 10/07/21 14:31

Client ID: EP29_-4 Date Received: 10/07/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2154875
Project Number: 170599501
Report Date: 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-06
Client ID: EP38_-4
Sample Location: BROOKLYN, NY

Date Collected: 10/07/21 14:45
Date Received: 10/07/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/09/21 11:55
Analyst: AR
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 10/08/21 08:26
Cleanup Method: EPA 3620B
Cleanup Date: 10/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.07	0.406	1	A
Lindane	ND		ug/kg	0.863	0.386	1	A
Alpha-BHC	ND		ug/kg	0.863	0.245	1	A
Beta-BHC	ND		ug/kg	2.07	0.786	1	A
Heptachlor	ND		ug/kg	1.04	0.464	1	A
Aldrin	ND		ug/kg	2.07	0.729	1	A
Heptachlor epoxide	ND		ug/kg	3.88	1.16	1	A
Endrin	ND		ug/kg	0.863	0.354	1	A
Endrin aldehyde	ND		ug/kg	2.59	0.906	1	A
Endrin ketone	ND		ug/kg	2.07	0.533	1	A
Dieldrin	ND		ug/kg	1.29	0.647	1	A
4,4'-DDE	ND		ug/kg	2.07	0.479	1	A
4,4'-DDD	ND		ug/kg	2.07	0.739	1	A
4,4'-DDT	ND		ug/kg	3.88	1.67	1	A
Endosulfan I	ND		ug/kg	2.07	0.489	1	A
Endosulfan II	ND		ug/kg	2.07	0.692	1	A
Endosulfan sulfate	ND		ug/kg	0.863	0.411	1	A
Methoxychlor	ND		ug/kg	3.88	1.21	1	A
Toxaphene	ND		ug/kg	38.8	10.9	1	A
cis-Chlordane	ND		ug/kg	2.59	0.722	1	A
trans-Chlordane	ND		ug/kg	2.59	0.684	1	A
Chlordane	ND		ug/kg	17.3	6.86	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2154875

Project Number: 170599501 **Report Date:** 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-06 Date Collected: 10/07/21 14:45

Client ID: EP38_-4 Date Received: 10/07/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2154875
Project Number: 170599501
Report Date: 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-07
Client ID: EP37_-4
Sample Location: BROOKLYN, NY

Date Collected: 10/07/21 14:50
Date Received: 10/07/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/09/21 12:06
Analyst: AR
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/08/21 08:26
Cleanup Method: EPA 3620B
Cleanup Date: 10/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.08	0.408	1	A
Lindane	ND		ug/kg	0.869	0.388	1	A
Alpha-BHC	ND		ug/kg	0.869	0.247	1	A
Beta-BHC	ND		ug/kg	2.08	0.791	1	A
Heptachlor	ND		ug/kg	1.04	0.468	1	A
Aldrin	ND		ug/kg	2.08	0.734	1	A
Heptachlor epoxide	ND		ug/kg	3.91	1.17	1	A
Endrin	ND		ug/kg	0.869	0.356	1	A
Endrin aldehyde	ND		ug/kg	2.61	0.912	1	A
Endrin ketone	ND		ug/kg	2.08	0.537	1	A
Dieldrin	ND		ug/kg	1.30	0.652	1	A
4,4'-DDE	ND		ug/kg	2.08	0.482	1	A
4,4'-DDD	ND		ug/kg	2.08	0.744	1	A
4,4'-DDT	ND		ug/kg	3.91	1.68	1	A
Endosulfan I	ND		ug/kg	2.08	0.493	1	A
Endosulfan II	ND		ug/kg	2.08	0.697	1	A
Endosulfan sulfate	ND		ug/kg	0.869	0.414	1	A
Methoxychlor	ND		ug/kg	3.91	1.22	1	A
Toxaphene	ND		ug/kg	39.1	11.0	1	A
cis-Chlordane	ND		ug/kg	2.61	0.726	1	A
trans-Chlordane	ND		ug/kg	2.61	0.688	1	A
Chlordane	ND		ug/kg	17.4	6.91	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2154875

Project Number: 170599501 **Report Date:** 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-07 Date Collected: 10/07/21 14:50

Client ID: EP37_-4 Date Received: 10/07/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	89		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2154875
Project Number: 170599501
Report Date: 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-08
Client ID: EP28_-4
Sample Location: BROOKLYN, NY

Date Collected: 10/07/21 15:03
Date Received: 10/07/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/09/21 12:17
Analyst: AR
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 10/08/21 08:26
Cleanup Method: EPA 3620B
Cleanup Date: 10/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.09	0.410	1	A
Lindane	ND		ug/kg	0.872	0.390	1	A
Alpha-BHC	ND		ug/kg	0.872	0.248	1	A
Beta-BHC	ND		ug/kg	2.09	0.793	1	A
Heptachlor	ND		ug/kg	1.04	0.469	1	A
Aldrin	ND		ug/kg	2.09	0.736	1	A
Heptachlor epoxide	ND		ug/kg	3.92	1.18	1	A
Endrin	ND		ug/kg	0.872	0.357	1	A
Endrin aldehyde	ND		ug/kg	2.61	0.915	1	A
Endrin ketone	ND		ug/kg	2.09	0.539	1	A
Dieldrin	ND		ug/kg	1.31	0.654	1	A
4,4'-DDE	ND		ug/kg	2.09	0.484	1	A
4,4'-DDD	ND		ug/kg	2.09	0.746	1	A
4,4'-DDT	ND		ug/kg	3.92	1.68	1	A
Endosulfan I	ND		ug/kg	2.09	0.494	1	A
Endosulfan II	ND		ug/kg	2.09	0.699	1	A
Endosulfan sulfate	ND		ug/kg	0.872	0.415	1	A
Methoxychlor	ND		ug/kg	3.92	1.22	1	A
Toxaphene	ND		ug/kg	39.2	11.0	1	A
cis-Chlordane	ND		ug/kg	2.61	0.729	1	A
trans-Chlordane	ND		ug/kg	2.61	0.690	1	A
Chlordane	ND		ug/kg	17.4	6.93	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2154875

Project Number: 170599501 **Report Date:** 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-08 Date Collected: 10/07/21 15:03

Client ID: EP28_-4 Date Received: 10/07/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	97		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2154875
Report Date: 10/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/09/21 10:27
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 10/08/21 08:25
Cleanup Method: EPA 3620B
Cleanup Date: 10/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-08 Batch: WG1556066-1						
Delta-BHC	ND		ug/kg	1.57	0.308	A
Lindane	ND		ug/kg	0.654	0.292	A
Alpha-BHC	ND		ug/kg	0.654	0.186	A
Beta-BHC	ND		ug/kg	1.57	0.596	A
Heptachlor	ND		ug/kg	0.785	0.352	A
Aldrin	ND		ug/kg	1.57	0.553	A
Heptachlor epoxide	ND		ug/kg	2.94	0.884	A
Endrin	ND		ug/kg	0.654	0.268	A
Endrin aldehyde	ND		ug/kg	1.96	0.687	A
Endrin ketone	ND		ug/kg	1.57	0.404	A
Dieldrin	ND		ug/kg	0.982	0.491	A
4,4'-DDE	ND		ug/kg	1.57	0.363	A
4,4'-DDD	ND		ug/kg	1.57	0.560	A
4,4'-DDT	ND		ug/kg	2.94	1.26	A
Endosulfan I	ND		ug/kg	1.57	0.371	A
Endosulfan II	ND		ug/kg	1.57	0.525	A
Endosulfan sulfate	ND		ug/kg	0.654	0.312	A
Methoxychlor	ND		ug/kg	2.94	0.916	A
Toxaphene	ND		ug/kg	29.4	8.25	A
cis-Chlordane	ND		ug/kg	1.96	0.547	A
trans-Chlordane	ND		ug/kg	1.96	0.518	A
Chlordane	ND		ug/kg	13.1	5.20	A

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2154875
Report Date: 10/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/09/21 10:27
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 10/08/21 08:25
Cleanup Method: EPA 3620B
Cleanup Date: 10/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-08 Batch: WG1556066-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	89		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2154875

Report Date: 10/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-08 Batch: WG1556066-2 WG1556066-3									
Delta-BHC	82		81		30-150	1		30	A
Lindane	87		86		30-150	1		30	A
Alpha-BHC	89		88		30-150	1		30	A
Beta-BHC	76		76		30-150	0		30	A
Heptachlor	87		86		30-150	1		30	A
Aldrin	86		85		30-150	1		30	A
Heptachlor epoxide	79		77		30-150	3		30	A
Endrin	93		90		30-150	3		30	A
Endrin aldehyde	69		70		30-150	1		30	A
Endrin ketone	87		86		30-150	1		30	A
Dieldrin	93		91		30-150	2		30	A
4,4'-DDE	86		84		30-150	2		30	A
4,4'-DDD	90		88		30-150	2		30	A
4,4'-DDT	90		87		30-150	3		30	A
Endosulfan I	82		80		30-150	2		30	A
Endosulfan II	87		86		30-150	1		30	A
Endosulfan sulfate	74		74		30-150	0		30	A
Methoxychlor	82		80		30-150	2		30	A
cis-Chlordane	75		74		30-150	1		30	A
trans-Chlordane	82		82		30-150	0		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2154875

Report Date: 10/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-08 Batch: WG1556066-2 WG1556066-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		69		30-150	A
Decachlorobiphenyl	104		96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		73		30-150	B
Decachlorobiphenyl	105		102		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2154875
Report Date: 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-01
Client ID: EP21_-4
Sample Location: BROOKLYN, NY

Date Collected: 10/07/21 14:00
Date Received: 10/07/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.4		%	0.100	NA	1	-	10/08/21 05:57	121,2540G	RI

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2154875
Report Date: 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-02
Client ID: EPSW11_-4
Sample Location: BROOKLYN, NY

Date Collected: 10/07/21 14:13
Date Received: 10/07/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.7		%	0.100	NA	1	-	10/08/21 05:57	121,2540G	RI

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2154875
Report Date: 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-03
Client ID: EP30_-4
Sample Location: BROOKLYN, NY

Date Collected: 10/07/21 14:17
Date Received: 10/07/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.3		%	0.100	NA	1	-	10/08/21 05:57	121,2540G	RI

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2154875
Report Date: 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-04
Client ID: EPSW12_-4
Sample Location: BROOKLYN, NY

Date Collected: 10/07/21 14:26
Date Received: 10/07/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.9		%	0.100	NA	1	-	10/08/21 05:57	121,2540G	RI

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2154875
Report Date: 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-05
Client ID: EP29_-4
Sample Location: BROOKLYN, NY

Date Collected: 10/07/21 14:31
Date Received: 10/07/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.5		%	0.100	NA	1	-	10/08/21 05:57	121,2540G	RI

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2154875
Report Date: 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-06
Client ID: EP38_-4
Sample Location: BROOKLYN, NY

Date Collected: 10/07/21 14:45
Date Received: 10/07/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.4		%	0.100	NA	1	-	10/08/21 05:57	121,2540G	RI

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2154875
Report Date: 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-07
Client ID: EP37_-4
Sample Location: BROOKLYN, NY

Date Collected: 10/07/21 14:50
Date Received: 10/07/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.2		%	0.100	NA	1	-	10/08/21 05:57	121,2540G	RI

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2154875
Report Date: 10/11/21

SAMPLE RESULTS

Lab ID: L2154875-08
Client ID: EP28_-4
Sample Location: BROOKLYN, NY

Date Collected: 10/07/21 15:03
Date Received: 10/07/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.7		%	0.100	NA	1	-	10/08/21 05:57	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2154875

Report Date: 10/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1555989-1 QC Sample: L2154686-01 Client ID: DUP Sample						
Solids, Total	78.6	79.3	%	1		20

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2154875
Report Date: 10/11/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2154875-01A	Glass 60mL/2oz unpreserved	A	NA		5.1	Y	Absent		TS(7),NYTCL-8081(14)
L2154875-02A	Glass 60mL/2oz unpreserved	A	NA		5.1	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14)
L2154875-02B	Glass 120ml/4oz unpreserved	A	NA		5.1	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14)
L2154875-03A	Glass 60mL/2oz unpreserved	A	NA		5.1	Y	Absent		TS(7),NYTCL-8081(14)
L2154875-04A	Glass 60mL/2oz unpreserved	A	NA		5.1	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14)
L2154875-04B	Glass 120ml/4oz unpreserved	A	NA		5.1	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14)
L2154875-05A	Glass 60mL/2oz unpreserved	A	NA		5.1	Y	Absent		TS(7),NYTCL-8081(14)
L2154875-06A	Glass 60mL/2oz unpreserved	A	NA		5.1	Y	Absent		TS(7),NYTCL-8081(14)
L2154875-07A	Glass 60mL/2oz unpreserved	A	NA		5.1	Y	Absent		TS(7),NYTCL-8081(14)
L2154875-08A	Glass 60mL/2oz unpreserved	A	NA		5.1	Y	Absent		TS(7),NYTCL-8081(14)

*Values in parentheses indicate holding time in days

Project Name:	1607 SURF AVE.	**Lab Number:**	L2154875
Project Number:	170599501	**Report Date:**	10/11/21

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:	1607 SURF AVE.	**Lab Number:**	L2154875
Project Number:	170599501	**Report Date:**	10/11/21

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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVE.	**Lab Number:**	L2154875
Project Number:	170599501	**Report Date:**	10/11/21

Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVE.	**Lab Number:**	L2154875
Project Number:	170599501	**Report Date:**	10/11/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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, SM4500Cl-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, **LACHAT 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

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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 of

Date Rec'd in Lab: 10/8/21

ALPHA Job #: L2154875

Client Information

Client: Langan
Address:
Phone:
Fax: ksemon@langan.com
Email: ~~Sfabiano@langan.com~~

Project Information

Project Name: 1607 Sixth Ave
Project Location: Brooklyn NY
Project # 170599501
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date: 2
Rush (only if pre approved) ☒ # of Days: TAT ☒ days

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☒ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ 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:

cc: Lesmail@langan.com; ksemon@langan.com
datamanagement@langan.com

Please specify Metals or TAL.

ANALYSIS

TCL SVOCs
TCL Pesticides

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL SVOCs	TCL Pesticides	Sample Specific Comments
54875 -01	EP21_-4*	10/7	1400	S	GEC		X	
-02	EPSW11_-4*		1413			X	X	
-03	EP30_-4*		1417				X	
-04	EPSW12_-4*		1426			X	X	
-05	EP29_-4*		1431				X	
-06	EP38_-4*		1445				X	
-07	EP37_-4*		1450				X	
-08	EP28_-4*	↓	1503	↓	↓		X	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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													
Preservative													

Relinquished By:	Date/Time	Received By:	Date/Time
Gabriel Enriquez	10/7/21 17:00	[illegible]	10/7/21 17:00
[illegible]	10/7/21 19:15	[illegible] AAL	10/7/21 20:50
[illegible] AAL	10/8/21 0300	[illegible]	10/8/21 0020
			10/8/21 03:00

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2155156
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Kimberly Semon
Phone:	(212) 479-5486
Project Name:	1607 SURF AVENUE
Project Number:	170599501
Report Date:	10/12/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2155156
Report Date: 10/12/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2155156-01	EP36_ -4	SOIL	BROOKLYN, NY	10/08/21 11:51	10/08/21
L2155156-02	EP44_ -4	SOIL	BROOKLYN, NY	10/08/21 12:10	10/08/21
L2155156-03	EP45_ -4	SOIL	BROOKLYN, NY	10/08/21 12:32	10/08/21

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2155156
Project Number:	170599501	**Report Date:**	10/12/21

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:	1607 SURF AVENUE	**Lab Number:**	L2155156
Project Number:	170599501	**Report Date:**	10/12/21

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: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 10/12/21

ORGANICS

PESTICIDES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2155156
Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2155156-01
Client ID: EP36_ -4
Sample Location: BROOKLYN, NY

Date Collected: 10/08/21 11:51
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/11/21 17:04
Analyst: JAW
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 10/09/21 04:11
Cleanup Method: EPA 3620B
Cleanup Date: 10/10/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.78	0.348	1	A
Lindane	ND		ug/kg	0.740	0.331	1	A
Alpha-BHC	ND		ug/kg	0.740	0.210	1	A
Beta-BHC	ND		ug/kg	1.78	0.674	1	A
Heptachlor	ND		ug/kg	0.888	0.398	1	A
Aldrin	ND		ug/kg	1.78	0.625	1	A
Heptachlor epoxide	ND		ug/kg	3.33	0.999	1	A
Endrin	ND		ug/kg	0.740	0.303	1	A
Endrin aldehyde	ND		ug/kg	2.22	0.777	1	A
Endrin ketone	ND		ug/kg	1.78	0.457	1	A
Dieldrin	ND		ug/kg	1.11	0.555	1	A
4,4'-DDE	ND		ug/kg	1.78	0.411	1	A
4,4'-DDD	ND		ug/kg	1.78	0.634	1	A
4,4'-DDT	ND		ug/kg	3.33	1.43	1	A
Endosulfan I	ND		ug/kg	1.78	0.420	1	A
Endosulfan II	ND		ug/kg	1.78	0.594	1	A
Endosulfan sulfate	ND		ug/kg	0.740	0.352	1	A
Methoxychlor	ND		ug/kg	3.33	1.04	1	A
Toxaphene	ND		ug/kg	33.3	9.32	1	A
cis-Chlordane	ND		ug/kg	2.22	0.619	1	A
trans-Chlordane	ND		ug/kg	2.22	0.586	1	A
Chlordane	ND		ug/kg	14.8	5.88	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2155156

Project Number: 170599501 **Report Date:** 10/12/21

SAMPLE RESULTS

Lab ID: L2155156-01 Date Collected: 10/08/21 11:51

Client ID: EP36_ -4 Date Received: 10/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2155156
Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2155156-02
Client ID: EP44_ -4
Sample Location: BROOKLYN, NY

Date Collected: 10/08/21 12:10
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/11/21 17:15
Analyst: JAW
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 10/09/21 04:11
Cleanup Method: EPA 3620B
Cleanup Date: 10/10/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.00	0.392	1	A
Lindane	ND		ug/kg	0.834	0.372	1	A
Alpha-BHC	ND		ug/kg	0.834	0.237	1	A
Beta-BHC	ND		ug/kg	2.00	0.758	1	A
Heptachlor	ND		ug/kg	1.00	0.448	1	A
Aldrin	ND		ug/kg	2.00	0.704	1	A
Heptachlor epoxide	ND		ug/kg	3.75	1.12	1	A
Endrin	ND		ug/kg	0.834	0.342	1	A
Endrin aldehyde	ND		ug/kg	2.50	0.875	1	A
Endrin ketone	ND		ug/kg	2.00	0.515	1	A
Dieldrin	ND		ug/kg	1.25	0.625	1	A
4,4'-DDE	ND		ug/kg	2.00	0.463	1	A
4,4'-DDD	ND		ug/kg	2.00	0.714	1	A
4,4'-DDT	ND		ug/kg	3.75	1.61	1	A
Endosulfan I	ND		ug/kg	2.00	0.473	1	A
Endosulfan II	ND		ug/kg	2.00	0.668	1	A
Endosulfan sulfate	ND		ug/kg	0.834	0.397	1	A
Methoxychlor	ND		ug/kg	3.75	1.17	1	A
Toxaphene	ND		ug/kg	37.5	10.5	1	A
cis-Chlordane	ND		ug/kg	2.50	0.697	1	A
trans-Chlordane	ND		ug/kg	2.50	0.660	1	A
Chlordane	ND		ug/kg	16.7	6.63	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2155156

Project Number: 170599501 **Report Date:** 10/12/21

SAMPLE RESULTS

Lab ID: L2155156-02 Date Collected: 10/08/21 12:10

Client ID: EP44_ -4 Date Received: 10/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2155156
Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2155156-03
Client ID: EP45_ -4
Sample Location: BROOKLYN, NY

Date Collected: 10/08/21 12:32
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/11/21 17:26
Analyst: JAW
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 10/09/21 04:11
Cleanup Method: EPA 3620B
Cleanup Date: 10/10/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.00	0.391	1	A
Lindane	ND		ug/kg	0.832	0.372	1	A
Alpha-BHC	ND		ug/kg	0.832	0.236	1	A
Beta-BHC	ND		ug/kg	2.00	0.757	1	A
Heptachlor	ND		ug/kg	0.998	0.448	1	A
Aldrin	ND		ug/kg	2.00	0.703	1	A
Heptachlor epoxide	ND		ug/kg	3.74	1.12	1	A
Endrin	ND		ug/kg	0.832	0.341	1	A
Endrin aldehyde	ND		ug/kg	2.50	0.874	1	A
Endrin ketone	ND		ug/kg	2.00	0.514	1	A
Dieldrin	ND		ug/kg	1.25	0.624	1	A
4,4'-DDE	ND		ug/kg	2.00	0.462	1	A
4,4'-DDD	ND		ug/kg	2.00	0.712	1	A
4,4'-DDT	ND		ug/kg	3.74	1.60	1	A
Endosulfan I	ND		ug/kg	2.00	0.472	1	A
Endosulfan II	ND		ug/kg	2.00	0.667	1	A
Endosulfan sulfate	ND		ug/kg	0.832	0.396	1	A
Methoxychlor	ND		ug/kg	3.74	1.16	1	A
Toxaphene	ND		ug/kg	37.4	10.5	1	A
cis-Chlordane	ND		ug/kg	2.50	0.696	1	A
trans-Chlordane	ND		ug/kg	2.50	0.659	1	A
Chlordane	ND		ug/kg	16.6	6.61	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2155156

Project Number: 170599501 **Report Date:** 10/12/21

SAMPLE RESULTS

Lab ID: L2155156-03 Date Collected: 10/08/21 12:32

Client ID: EP45_ -4 Date Received: 10/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2155156
Report Date: 10/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/09/21 10:27
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 10/08/21 08:25
Cleanup Method: EPA 3620B
Cleanup Date: 10/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1556066-1						
Delta-BHC	ND		ug/kg	1.57	0.308	A
Lindane	ND		ug/kg	0.654	0.292	A
Alpha-BHC	ND		ug/kg	0.654	0.186	A
Beta-BHC	ND		ug/kg	1.57	0.596	A
Heptachlor	ND		ug/kg	0.785	0.352	A
Aldrin	ND		ug/kg	1.57	0.553	A
Heptachlor epoxide	ND		ug/kg	2.94	0.884	A
Endrin	ND		ug/kg	0.654	0.268	A
Endrin aldehyde	ND		ug/kg	1.96	0.687	A
Endrin ketone	ND		ug/kg	1.57	0.404	A
Dieldrin	ND		ug/kg	0.982	0.491	A
4,4'-DDE	ND		ug/kg	1.57	0.363	A
4,4'-DDD	ND		ug/kg	1.57	0.560	A
4,4'-DDT	ND		ug/kg	2.94	1.26	A
Endosulfan I	ND		ug/kg	1.57	0.371	A
Endosulfan II	ND		ug/kg	1.57	0.525	A
Endosulfan sulfate	ND		ug/kg	0.654	0.312	A
Methoxychlor	ND		ug/kg	2.94	0.916	A
Toxaphene	ND		ug/kg	29.4	8.25	A
cis-Chlordane	ND		ug/kg	1.96	0.547	A
trans-Chlordane	ND		ug/kg	1.96	0.518	A
Chlordane	ND		ug/kg	13.1	5.20	A

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2155156
Report Date: 10/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/09/21 10:27
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 10/08/21 08:25
Cleanup Method: EPA 3620B
Cleanup Date: 10/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1556066-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	89		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2155156

Report Date: 10/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1556066-2 WG1556066-3									
Delta-BHC	82		81		30-150	1		30	A
Lindane	87		86		30-150	1		30	A
Alpha-BHC	89		88		30-150	1		30	A
Beta-BHC	76		76		30-150	0		30	A
Heptachlor	87		86		30-150	1		30	A
Aldrin	86		85		30-150	1		30	A
Heptachlor epoxide	79		77		30-150	3		30	A
Endrin	93		90		30-150	3		30	A
Endrin aldehyde	69		70		30-150	1		30	A
Endrin ketone	87		86		30-150	1		30	A
Dieldrin	93		91		30-150	2		30	A
4,4'-DDE	86		84		30-150	2		30	A
4,4'-DDD	90		88		30-150	2		30	A
4,4'-DDT	90		87		30-150	3		30	A
Endosulfan I	82		80		30-150	2		30	A
Endosulfan II	87		86		30-150	1		30	A
Endosulfan sulfate	74		74		30-150	0		30	A
Methoxychlor	82		80		30-150	2		30	A
cis-Chlordane	75		74		30-150	1		30	A
trans-Chlordane	82		82		30-150	0		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2155156

Report Date: 10/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1556066-2 WG1556066-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		69		30-150	A
Decachlorobiphenyl	104		96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		73		30-150	B
Decachlorobiphenyl	105		102		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2155156
Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2155156-01
Client ID: EP36_ -4
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 10/08/21 11:51
Date Received: 10/08/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.6		%	0.100	NA	1	-	10/09/21 05:52	121,2540G	RI

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2155156
Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2155156-02
Client ID: EP44_ -4
Sample Location: BROOKLYN, NY

Date Collected: 10/08/21 12:10
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.5		%	0.100	NA	1	-	10/09/21 05:52	121,2540G	RI

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2155156
Report Date: 10/12/21

SAMPLE RESULTS

Lab ID: L2155156-03
Client ID: EP45_ -4
Sample Location: BROOKLYN, NY

Date Collected: 10/08/21 12:32
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.8		%	0.100	NA	1	-	10/09/21 05:52	121,2540G	RI

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2155156
Report Date: 10/12/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2155156-01A	Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		TS(7),NYTCL-8081(14)
L2155156-02A	Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		TS(7),NYTCL-8081(14)
L2155156-03A	Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		TS(7),NYTCL-8081(14)

*Values in parentheses indicate holding time in days

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2155156
Project Number:	170599501	**Report Date:**	10/12/21

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:	1607 SURF AVENUE	**Lab Number:**	L2155156
Project Number:	170599501	**Report Date:**	10/12/21

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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2155156
Project Number:	170599501	**Report Date:**	10/12/21

Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2155156
Project Number:	170599501	**Report Date:**	10/12/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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, SM4500Cl-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, **LACHAT 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

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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 of

Date Rec'd in Lab: 10/09/21

ALPHA Job #: L2155156

Client Information
Client: Langan
Address:
Phone:
Fax:
Email: Ksemon@langan.com

Project Information
Project Name: 1607 Sort Avenue
Project Location: Brooklyn, NY
Project # 170599501
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☒ TAT # of Days: 2 days

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ 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:
cc: Lesmail@langan.com; datamanagement@langan.com
Ksemon@langan.com

Please specify Metals or TAL.

ANALYSIS
TCL Pesticides

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL Pesticides	Sample Specific Comments
55156-01	EP36_-4	10/8	1151	S	GEC	X	
-02	EP44_-4	↓	1210	↓	↓	X	
-03	EP45_-4	↓	1232	↓	↓	X	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
Gabriel Finigan	10/8/21 1515	[illegible] (AAL)	10/8/21 1515
[illegible] (AAL)	10/8/21 1910	JK & AAL	10/8 1930
JK & AAL	10/8	[illegible] AAL	10/9/21 23:00
[illegible] AAL	10/9/21 01:40	[illegible]	10/9/21 01:40

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2155376
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Kimberly Semon
Phone:	(212) 479-5486
Project Name:	1607 SURF AVENUE
Project Number:	170599501
Report Date:	10/13/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2155376
Report Date: 10/13/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2155376-01	EP21_ -5	SOIL	BROOKLYN, NY	10/11/21 15:30	10/11/21
L2155376-02	EPSW11_ -5	SOIL	BROOKLYN, NY	10/11/21 15:40	10/11/21
L2155376-03	EPSW12_ -5	SOIL	BROOKLYN, NY	10/11/21 15:50	10/11/21
L2155376-04	FB01_101121	WATER	BROOKLYN, NY	10/11/21 15:35	10/11/21

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2155376
Project Number:	170599501	**Report Date:**	10/13/21

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:	1607 SURF AVENUE	**Lab Number:**	L2155376
Project Number:	170599501	**Report Date:**	10/13/21

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.

Semivolatile Organics

The WG1557428-2/-3 LCS/LCSD recoveries, associated with L2155376-02 and -03, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

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: Caitlin Walukevich

Title: Technical Director/Representative Date: 10/13/21

ORGANICS

SEMIVOLATILES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2155376
Report Date: 10/13/21

SAMPLE RESULTS

Lab ID: L2155376-02
Client ID: EPSW11_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/11/21 15:40
Date Received: 10/11/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/13/21 02:20
Analyst: CMM
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 10/12/21 08:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	40.	1
1,3-Dichlorobenzene	ND		ug/kg	220	38.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	59.	1
2,4-Dinitrotoluene	ND		ug/kg	220	44.	1
2,6-Dinitrotoluene	ND		ug/kg	220	38.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	34.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	38.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	630	200	1
Hexachloroethane	ND		ug/kg	180	36.	1
Isophorone	ND		ug/kg	200	29.	1
Naphthalene	ND		ug/kg	220	27.	1
Nitrobenzene	ND		ug/kg	200	33.	1
NDPA/DPA	ND		ug/kg	180	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	76.	1
Butyl benzyl phthalate	ND		ug/kg	220	56.	1
Di-n-butylphthalate	ND		ug/kg	220	42.	1
Di-n-octylphthalate	ND		ug/kg	220	75.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2155376

Project Number: 170599501 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2155376-02 Date Collected: 10/11/21 15:40

Client ID: EPSW11_ -5 Date Received: 10/11/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	ND		ug/kg	130	25.	1
Benzo(a)pyrene	ND		ug/kg	180	54.	1
Benzo(b)fluoranthene	ND		ug/kg	130	37.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	ND		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	180	34.	1
Anthracene	ND		ug/kg	130	43.	1
Benzo(ghi)perylene	ND		ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	27.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	26.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	31.	1
Pyrene	ND		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	51.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	42.	1
4-Nitroaniline	ND		ug/kg	220	91.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	260	27.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	42.	1
p-Chloro-m-cresol	ND		ug/kg	220	33.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	36.	1
2,4-Dimethylphenol	ND		ug/kg	220	73.	1
2-Nitrophenol	ND		ug/kg	480	83.	1
4-Nitrophenol	ND		ug/kg	310	90.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	570	100	1
Pentachlorophenol	ND		ug/kg	180	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	34.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2155376

Project Number: 170599501 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2155376-02 Date Collected: 10/11/21 15:40

Client ID: EPSW11_ -5 Date Received: 10/11/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	42.	1
Benzoic Acid	ND		ug/kg	720	220	1
Benzyl Alcohol	ND		ug/kg	220	68.	1
Carbazole	ND		ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	33	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	60		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2155376
Report Date: 10/13/21

SAMPLE RESULTS

Lab ID: L2155376-03
Client ID: EPSW12_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/11/21 15:50
Date Received: 10/11/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/13/21 05:06
Analyst: CMM
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 10/12/21 08:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	69	J	ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	39.	1
1,3-Dichlorobenzene	ND		ug/kg	210	37.	1
1,4-Dichlorobenzene	ND		ug/kg	210	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	57.	1
2,4-Dinitrotoluene	ND		ug/kg	210	43.	1
2,6-Dinitrotoluene	ND		ug/kg	210	37.	1
Fluoranthene	1200		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	41	J	ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	74.	1
Butyl benzyl phthalate	ND		ug/kg	210	54.	1
Di-n-butylphthalate	ND		ug/kg	210	41.	1
Di-n-octylphthalate	ND		ug/kg	210	73.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2155376

Project Number: 170599501 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2155376-03 Date Collected: 10/11/21 15:50

Client ID: EPSW12_ -5 Date Received: 10/11/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	45.	1
Benzo(a)anthracene	530		ug/kg	130	24.	1
Benzo(a)pyrene	490		ug/kg	170	52.	1
Benzo(b)fluoranthene	700		ug/kg	130	36.	1
Benzo(k)fluoranthene	190		ug/kg	130	34.	1
Chrysene	500		ug/kg	130	22.	1
Acenaphthylene	120	J	ug/kg	170	33.	1
Anthracene	190		ug/kg	130	42.	1
Benzo(ghi)perylene	320		ug/kg	170	25.	1
Fluorene	93	J	ug/kg	210	21.	1
Phenanthrene	760		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	92	J	ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	380		ug/kg	170	30.	1
Pyrene	940		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	210	39.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	89.	1
Dibenzofuran	39	J	ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	71.	1
2-Nitrophenol	ND		ug/kg	460	81.	1
4-Nitrophenol	ND		ug/kg	300	88.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2155376

Project Number: 170599501 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2155376-03 Date Collected: 10/11/21 15:50

Client ID: EPSW12_ -5 Date Received: 10/11/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	41.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	210	66.	1
Carbazole	100	J	ug/kg	210	21.	1
1,4-Dioxane	ND		ug/kg	32	9.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	51		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2155376
Report Date: 10/13/21

SAMPLE RESULTS

Lab ID: L2155376-04
Client ID: FB01_101121
Sample Location: BROOKLYN, NY

Date Collected: 10/11/21 15:35
Date Received: 10/11/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/13/21 00:37
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 10/12/21 06:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	0.44	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Hexachlorobenzene	ND		ug/l	2.0	0.46	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
2-Chloronaphthalene	ND		ug/l	2.0	0.44	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
Fluoranthene	ND		ug/l	2.0	0.26	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorobutadiene	ND		ug/l	2.0	0.66	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Hexachloroethane	ND		ug/l	2.0	0.58	1
Isophorone	ND		ug/l	5.0	1.2	1
Naphthalene	ND		ug/l	2.0	0.46	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2155376

Project Number: 170599501 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2155376-04 Date Collected: 10/11/21 15:35

Client ID: FB01_101121 Date Received: 10/11/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Benzo(a)anthracene	ND		ug/l	2.0	0.32	1
Benzo(a)pyrene	ND		ug/l	2.0	0.41	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37	1
Chrysene	ND		ug/l	2.0	0.34	1
Acenaphthylene	ND		ug/l	2.0	0.46	1
Anthracene	ND		ug/l	2.0	0.33	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.30	1
Fluorene	ND		ug/l	2.0	0.41	1
Phenanthrene	ND		ug/l	2.0	0.33	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40	1
Pyrene	ND		ug/l	2.0	0.28	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
2-Methylnaphthalene	ND		ug/l	2.0	0.45	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Pentachlorophenol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2155376

Project Number: 170599501 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2155376-04 Date Collected: 10/11/21 15:35

Client ID: FB01_101121 Date Received: 10/11/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	69		10-120
4-Terphenyl-d14	69		41-149

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2155376
Report Date: 10/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/12/21 03:45
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 10/11/21 16:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1557213-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2155376
Report Date: 10/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/12/21 03:45
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 10/11/21 16:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1557213-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2155376
Report Date: 10/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/12/21 03:45
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 10/11/21 16:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1557213-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		21-120
Phenol-d6	57		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	98		10-120
4-Terphenyl-d14	91		41-149

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2155376
Report Date: 10/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/12/21 20:50
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/12/21 08:28

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03 Batch: WG1557428-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2155376
Report Date: 10/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/12/21 20:50
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/12/21 08:28

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03 Batch: WG1557428-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2155376
Report Date: 10/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/12/21 20:50
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/12/21 08:28

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03 Batch: WG1557428-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	59		30-120
2,4,6-Tribromophenol	64		10-136
4-Terphenyl-d14	68		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2155376
Report Date: 10/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1557213-2 WG1557213-3								
Acenaphthene	82		85		37-111	4		30
1,2,4-Trichlorobenzene	82		84		39-98	2		30
Hexachlorobenzene	92		95		40-140	3		30
Bis(2-chloroethyl)ether	88		89		40-140	1		30
2-Chloronaphthalene	84		87		40-140	4		30
1,2-Dichlorobenzene	80		81		40-140	1		30
1,3-Dichlorobenzene	81		81		40-140	0		30
1,4-Dichlorobenzene	80		79		36-97	1		30
3,3'-Dichlorobenzidine	81		59		40-140	**31**	Q	30
2,4-Dinitrotoluene	84		87		48-143	4		30
2,6-Dinitrotoluene	90		97		40-140	7		30
Fluoranthene	87		80		40-140	8		30
4-Chlorophenyl phenyl ether	89		88		40-140	1		30
4-Bromophenyl phenyl ether	95		93		40-140	2		30
Bis(2-chloroisopropyl)ether	100		100		40-140	0		30
Bis(2-chloroethoxy)methane	88		91		40-140	3		30
Hexachlorobutadiene	82		84		40-140	2		30
Hexachlorocyclopentadiene	83		66		40-140	23		30
Hexachloroethane	79		81		40-140	3		30
Isophorone	88		93		40-140	6		30
Naphthalene	83		84		40-140	1		30
Nitrobenzene	82		115		40-140	**34**	Q	30
NDPA/DPA	91		92		40-140	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2155376
Report Date: 10/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1557213-2 WG1557213-3								
n-Nitrosodi-n-propylamine	90		97		29-132	7		30
Bis(2-ethylhexyl)phthalate	107		126		40-140	16		30
Butyl benzyl phthalate	99		97		40-140	2		30
Di-n-butylphthalate	88		96		40-140	9		30
Di-n-octylphthalate	115		119		40-140	3		30
Diethyl phthalate	97		97		40-140	0		30
Dimethyl phthalate	81		81		40-140	0		30
Benzo(a)anthracene	91		92		40-140	1		30
Benzo(a)pyrene	109		102		40-140	7		30
Benzo(b)fluoranthene	111		100		40-140	10		30
Benzo(k)fluoranthene	96		91		40-140	5		30
Chrysene	93		85		40-140	9		30
Acenaphthylene	86		91		45-123	6		30
Anthracene	89		87		40-140	2		30
Benzo(ghi)perylene	107		107		40-140	0		30
Fluorene	89		91		40-140	2		30
Phenanthrene	88		85		40-140	3		30
Dibenzo(a,h)anthracene	100		103		40-140	3		30
Indeno(1,2,3-cd)pyrene	101		106		40-140	5		30
Pyrene	86		78		26-127	10		30
Biphenyl	86		89		40-140	3		30
4-Chloroaniline	59		73		40-140	21		30
2-Nitroaniline	87		93		52-143	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2155376

Report Date: 10/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1557213-2 WG1557213-3								
3-Nitroaniline	80		86		25-145	7		30
4-Nitroaniline	90		91		51-143	1		30
Dibenzofuran	85		85		40-140	0		30
2-Methylnaphthalene	83		85		40-140	2		30
1,2,4,5-Tetrachlorobenzene	85		86		2-134	1		30
Acetophenone	88		93		39-129	6		30
2,4,6-Trichlorophenol	91		94		30-130	3		30
p-Chloro-m-cresol	88		92		23-97	4		30
2-Chlorophenol	88		88		27-123	0		30
2,4-Dichlorophenol	88		89		30-130	1		30
2,4-Dimethylphenol	85		89		30-130	5		30
2-Nitrophenol	82		91		30-130	10		30
4-Nitrophenol	79		**81**	Q	10-80	3		30
2,4-Dinitrophenol	86		89		20-130	3		30
4,6-Dinitro-o-cresol	96		93		20-164	3		30
Pentachlorophenol	94		**108**	Q	9-103	14		30
Phenol	69		68		12-110	1		30
2-Methylphenol	82		87		30-130	6		30
3-Methylphenol/4-Methylphenol	84		86		30-130	2		30
2,4,5-Trichlorophenol	90		91		30-130	1		30
Benzoic Acid	110		113		10-164	3		30
Benzyl Alcohol	79		102		26-116	25		30
Carbazole	88		85		55-144	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2155376

Report Date: 10/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1557213-2 WG1557213-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		70		21-120
Phenol-d6	65		68		10-120
Nitrobenzene-d5	81		84		23-120
2-Fluorobiphenyl	79		79		15-120
2,4,6-Tribromophenol	98		108		10-120
4-Terphenyl-d14	87		79		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2155376

Report Date: 10/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG1557428-2 WG1557428-3								
Acenaphthene	74		71		31-137	4		50
1,2,4-Trichlorobenzene	80		77		38-107	4		50
Hexachlorobenzene	81		77		40-140	5		50
Bis(2-chloroethyl)ether	75		74		40-140	1		50
2-Chloronaphthalene	79		77		40-140	3		50
1,2-Dichlorobenzene	78		75		40-140	4		50
1,3-Dichlorobenzene	77		74		40-140	4		50
1,4-Dichlorobenzene	78		74		28-104	5		50
3,3'-Dichlorobenzidine	67		63		40-140	6		50
2,4-Dinitrotoluene	84		82		40-132	2		50
2,6-Dinitrotoluene	85		81		40-140	5		50
Fluoranthene	81		79		40-140	3		50
4-Chlorophenyl phenyl ether	76		73		40-140	4		50
4-Bromophenyl phenyl ether	78		75		40-140	4		50
Bis(2-chloroisopropyl)ether	68		65		40-140	5		50
Bis(2-chloroethoxy)methane	80		76		40-117	5		50
Hexachlorobutadiene	77		73		40-140	5		50
Hexachlorocyclopentadiene	**33**	Q	**32**	Q	40-140	3		50
Hexachloroethane	81		79		40-140	3		50
Isophorone	84		81		40-140	4		50
Naphthalene	76		72		40-140	5		50
Nitrobenzene	84		81		40-140	4		50
NDPA/DPA	79		76		36-157	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2155376

Report Date: 10/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG1557428-2 WG1557428-3								
n-Nitrosodi-n-propylamine	84		81		32-121	4		50
Bis(2-ethylhexyl)phthalate	91		84		40-140	8		50
Butyl benzyl phthalate	93		88		40-140	6		50
Di-n-butylphthalate	90		86		40-140	5		50
Di-n-octylphthalate	91		84		40-140	8		50
Diethyl phthalate	82		78		40-140	5		50
Dimethyl phthalate	85		81		40-140	5		50
Benzo(a)anthracene	77		73		40-140	5		50
Benzo(a)pyrene	81		76		40-140	6		50
Benzo(b)fluoranthene	83		79		40-140	5		50
Benzo(k)fluoranthene	77		72		40-140	7		50
Chrysene	76		73		40-140	4		50
Acenaphthylene	80		77		40-140	4		50
Anthracene	82		79		40-140	4		50
Benzo(ghi)perylene	82		78		40-140	5		50
Fluorene	78		75		40-140	4		50
Phenanthrene	80		78		40-140	3		50
Dibenzo(a,h)anthracene	83		81		40-140	2		50
Indeno(1,2,3-cd)pyrene	84		80		40-140	5		50
Pyrene	81		78		35-142	4		50
Biphenyl	78		74		37-127	5		50
4-Chloroaniline	83		77		40-140	8		50
2-Nitroaniline	84		79		47-134	6		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2155376
Report Date: 10/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG1557428-2 WG1557428-3								
3-Nitroaniline	71		68		26-129	4		50
4-Nitroaniline	78		75		41-125	4		50
Dibenzofuran	77		74		40-140	4		50
2-Methylnaphthalene	78		75		40-140	4		50
1,2,4,5-Tetrachlorobenzene	76		72		40-117	5		50
Acetophenone	88		85		14-144	3		50
2,4,6-Trichlorophenol	80		76		30-130	5		50
p-Chloro-m-cresol	87		84		26-103	4		50
2-Chlorophenol	82		79		25-102	4		50
2,4-Dichlorophenol	90		86		30-130	5		50
2,4-Dimethylphenol	92		89		30-130	3		50
2-Nitrophenol	84		82		30-130	2		50
4-Nitrophenol	81		81		11-114	0		50
2,4-Dinitrophenol	44		47		4-130	7		50
4,6-Dinitro-o-cresol	70		72		10-130	3		50
Pentachlorophenol	68		66		17-109	3		50
Phenol	80		79		26-90	1		50
2-Methylphenol	84		84		30-130.	0		50
3-Methylphenol/4-Methylphenol	92		90		30-130	2		50
2,4,5-Trichlorophenol	79		76		30-130	4		50
Benzoic Acid	**0**	Q	**0**	Q	10-110	NC		50
Benzyl Alcohol	90		88		40-140	2		50
Carbazole	82		80		54-128	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2155376

Report Date: 10/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG1557428-2 WG1557428-3								
1,4-Dioxane	52		51		40-140	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	75		74		25-120
Phenol-d6	83		82		10-120
Nitrobenzene-d5	85		84		23-120
2-Fluorobiphenyl	76		71		30-120
2,4,6-Tribromophenol	85		81		10-136
4-Terphenyl-d14	84		80		18-120

PESTICIDES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2155376
Report Date: 10/13/21

SAMPLE RESULTS

Lab ID: L2155376-01
Client ID: EP21_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/11/21 15:30
Date Received: 10/11/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/13/21 10:11
Analyst: AR
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/12/21 12:56
Cleanup Method: EPA 3620B
Cleanup Date: 10/12/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.83	0.359	1	A
Lindane	ND		ug/kg	0.764	0.341	1	A
Alpha-BHC	ND		ug/kg	0.764	0.217	1	A
Beta-BHC	ND		ug/kg	1.83	0.695	1	A
Heptachlor	ND		ug/kg	0.917	0.411	1	A
Aldrin	ND		ug/kg	1.83	0.645	1	A
Heptachlor epoxide	ND		ug/kg	3.44	1.03	1	A
Endrin	ND		ug/kg	0.764	0.313	1	A
Endrin aldehyde	ND		ug/kg	2.29	0.802	1	A
Endrin ketone	ND		ug/kg	1.83	0.472	1	A
Dieldrin	ND		ug/kg	1.14	0.573	1	A
4,4'-DDE	2.68		ug/kg	1.83	0.424	1	B
4,4'-DDD	3.56		ug/kg	1.83	0.654	1	B
4,4'-DDT	1.78	J	ug/kg	3.44	1.47	1	B
Endosulfan I	ND		ug/kg	1.83	0.433	1	A
Endosulfan II	ND		ug/kg	1.83	0.612	1	A
Endosulfan sulfate	ND		ug/kg	0.764	0.364	1	A
Methoxychlor	ND		ug/kg	3.44	1.07	1	A
Toxaphene	ND		ug/kg	34.4	9.62	1	A
cis-Chlordane	ND		ug/kg	2.29	0.638	1	A
trans-Chlordane	ND		ug/kg	2.29	0.605	1	A
Chlordane	ND		ug/kg	15.3	6.07	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2155376

Project Number: 170599501 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2155376-01 Date Collected: 10/11/21 15:30

Client ID: EP21_ -5 Date Received: 10/11/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	90		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2155376
Report Date: 10/13/21

SAMPLE RESULTS

Lab ID: L2155376-02
Client ID: EPSW11_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/11/21 15:40
Date Received: 10/11/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/13/21 10:22
Analyst: AR
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 10/12/21 12:56
Cleanup Method: EPA 3620B
Cleanup Date: 10/12/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.05	0.402	1	A
Lindane	ND		ug/kg	0.855	0.382	1	A
Alpha-BHC	ND		ug/kg	0.855	0.243	1	A
Beta-BHC	ND		ug/kg	2.05	0.778	1	A
Heptachlor	ND		ug/kg	1.02	0.460	1	A
Aldrin	ND		ug/kg	2.05	0.722	1	A
Heptachlor epoxide	ND		ug/kg	3.84	1.15	1	A
Endrin	ND		ug/kg	0.855	0.350	1	A
Endrin aldehyde	ND		ug/kg	2.56	0.897	1	A
Endrin ketone	ND		ug/kg	2.05	0.528	1	A
Dieldrin	ND		ug/kg	1.28	0.641	1	A
4,4'-DDE	ND		ug/kg	2.05	0.474	1	A
4,4'-DDD	ND		ug/kg	2.05	0.732	1	A
4,4'-DDT	ND		ug/kg	3.84	1.65	1	A
Endosulfan I	ND		ug/kg	2.05	0.484	1	A
Endosulfan II	ND		ug/kg	2.05	0.685	1	A
Endosulfan sulfate	ND		ug/kg	0.855	0.407	1	A
Methoxychlor	ND		ug/kg	3.84	1.20	1	A
Toxaphene	ND		ug/kg	38.4	10.8	1	A
cis-Chlordane	ND		ug/kg	2.56	0.714	1	A
trans-Chlordane	ND		ug/kg	2.56	0.677	1	A
Chlordane	ND		ug/kg	17.1	6.79	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2155376

Project Number: 170599501 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2155376-02 Date Collected: 10/11/21 15:40

Client ID: EPSW11_ -5 Date Received: 10/11/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	97		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2155376
Report Date: 10/13/21

SAMPLE RESULTS

Lab ID: L2155376-03
Client ID: EPSW12_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/11/21 15:50
Date Received: 10/11/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/13/21 10:33
Analyst: AR
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 10/12/21 12:56
Cleanup Method: EPA 3620B
Cleanup Date: 10/12/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.06	0.403	1	A
Lindane	ND		ug/kg	0.857	0.383	1	A
Alpha-BHC	ND		ug/kg	0.857	0.243	1	A
Beta-BHC	ND		ug/kg	2.06	0.780	1	A
Heptachlor	ND		ug/kg	1.03	0.461	1	A
Aldrin	ND		ug/kg	2.06	0.724	1	A
Heptachlor epoxide	ND		ug/kg	3.85	1.16	1	A
Endrin	ND		ug/kg	0.857	0.351	1	A
Endrin aldehyde	ND		ug/kg	2.57	0.899	1	A
Endrin ketone	ND		ug/kg	2.06	0.529	1	A
Dieldrin	ND		ug/kg	1.28	0.642	1	A
4,4'-DDE	19.4	IP	ug/kg	2.06	0.475	1	A
4,4'-DDD	3.68	IP	ug/kg	2.06	0.733	1	A
4,4'-DDT	56.8		ug/kg	3.85	1.65	1	B
Endosulfan I	ND		ug/kg	2.06	0.486	1	A
Endosulfan II	ND		ug/kg	2.06	0.687	1	A
Endosulfan sulfate	ND		ug/kg	0.857	0.408	1	A
Methoxychlor	ND		ug/kg	3.85	1.20	1	A
Toxaphene	ND		ug/kg	38.5	10.8	1	A
cis-Chlordane	1.41	J	ug/kg	2.57	0.716	1	B
trans-Chlordane	3.30		ug/kg	2.57	0.678	1	A
Chlordane	ND		ug/kg	17.1	6.81	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2155376

Project Number: 170599501 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2155376-03 Date Collected: 10/11/21 15:50

Client ID: EPSW12_ -5 Date Received: 10/11/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	102		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2155376
Report Date: 10/13/21

SAMPLE RESULTS

Lab ID: L2155376-04
Client ID: FB01_101121
Sample Location: BROOKLYN, NY

Date Collected: 10/11/21 15:35
Date Received: 10/11/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 10/12/21 16:54
Analyst: SDC

Extraction Method: EPA 3510C
Extraction Date: 10/12/21 06:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2155376

Project Number: 170599501 **Report Date:** 10/13/21

SAMPLE RESULTS

Lab ID: L2155376-04 Date Collected: 10/11/21 15:35

Client ID: FB01_101121 Date Received: 10/11/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	104		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2155376
Report Date: 10/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/12/21 12:54
Analyst: SDC

Extraction Method: EPA 3510C
Extraction Date: 10/11/21 17:40

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 04 Batch: WG1557238-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2155376
Report Date: 10/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/12/21 12:54
Analyst: SDC

Extraction Method: EPA 3510C
Extraction Date: 10/11/21 17:40

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 04 Batch: WG1557238-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	138		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	107		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2155376
Report Date: 10/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/13/21 09:37
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 10/12/21 12:56
Cleanup Method: EPA 3620B
Cleanup Date: 10/12/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1557602-1						
Delta-BHC	ND		ug/kg	1.53	0.300	A
Lindane	ND		ug/kg	0.639	0.286	A
Alpha-BHC	ND		ug/kg	0.639	0.182	A
Beta-BHC	ND		ug/kg	1.53	0.582	A
Heptachlor	ND		ug/kg	0.767	0.344	A
Aldrin	ND		ug/kg	1.53	0.540	A
Heptachlor epoxide	ND		ug/kg	2.88	0.863	A
Endrin	ND		ug/kg	0.639	0.262	A
Endrin aldehyde	ND		ug/kg	1.92	0.671	A
Endrin ketone	ND		ug/kg	1.53	0.395	A
Dieldrin	ND		ug/kg	0.959	0.480	A
4,4'-DDE	ND		ug/kg	1.53	0.355	A
4,4'-DDD	ND		ug/kg	1.53	0.547	A
4,4'-DDT	ND		ug/kg	2.88	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.362	A
Endosulfan II	ND		ug/kg	1.53	0.513	A
Endosulfan sulfate	ND		ug/kg	0.639	0.304	A
Methoxychlor	ND		ug/kg	2.88	0.895	A
Toxaphene	ND		ug/kg	28.8	8.06	A
cis-Chlordane	ND		ug/kg	1.92	0.534	A
trans-Chlordane	ND		ug/kg	1.92	0.506	A
Chlordane	ND		ug/kg	12.8	5.08	A

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2155376
Report Date: 10/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/13/21 09:37
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 10/12/21 12:56
Cleanup Method: EPA 3620B
Cleanup Date: 10/12/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1557602-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	126		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	90		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2155376

Report Date: 10/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 04 Batch: WG1557238-2 WG1557238-3									
Delta-BHC	91		87		30-150	4		20	A
Lindane	93		87		30-150	6		20	A
Alpha-BHC	92		86		30-150	7		20	A
Beta-BHC	94		88		30-150	7		20	A
Heptachlor	98		95		30-150	4		20	A
Aldrin	102		99		30-150	3		20	A
Heptachlor epoxide	91		90		30-150	1		20	A
Endrin	101		98		30-150	3		20	A
Endrin aldehyde	89		90		30-150	1		20	A
Endrin ketone	94		95		30-150	1		20	A
Dieldrin	105		103		30-150	2		20	A
4,4'-DDE	103		101		30-150	2		20	A
4,4'-DDD	112		109		30-150	3		20	A
4,4'-DDT	112		108		30-150	4		20	A
Endosulfan I	92		89		30-150	3		20	A
Endosulfan II	99		97		30-150	2		20	A
Endosulfan sulfate	96		97		30-150	0		20	A
Methoxychlor	102		99		30-150	3		20	A
cis-Chlordane	87		84		30-150	3		20	A
trans-Chlordane	103		98		30-150	5		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2155376

Report Date: 10/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 04 Batch: WG1557238-2 WG1557238-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		86		30-150	A
Decachlorobiphenyl	132		133		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		74		30-150	B
Decachlorobiphenyl	104		101		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2155376

Report Date: 10/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1557602-2 WG1557602-3									
Delta-BHC	80		81		30-150	1		30	A
Lindane	82		86		30-150	5		30	A
Alpha-BHC	78		82		30-150	5		30	A
Beta-BHC	79		81		30-150	3		30	A
Heptachlor	91		94		30-150	3		30	A
Aldrin	85		88		30-150	3		30	A
Heptachlor epoxide	78		82		30-150	5		30	A
Endrin	93		96		30-150	3		30	A
Endrin aldehyde	73		74		30-150	1		30	A
Endrin ketone	82		82		30-150	0		30	A
Dieldrin	95		99		30-150	4		30	A
4,4'-DDE	84		86		30-150	2		30	A
4,4'-DDD	98		102		30-150	4		30	A
4,4'-DDT	98		101		30-150	3		30	A
Endosulfan I	82		86		30-150	5		30	A
Endosulfan II	91		94		30-150	3		30	A
Endosulfan sulfate	79		84		30-150	6		30	A
Methoxychlor	88		90		30-150	2		30	A
cis-Chlordane	68		70		30-150	3		30	A
trans-Chlordane	99		105		30-150	6		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2155376

Report Date: 10/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1557602-2 WG1557602-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		86		30-150	A
Decachlorobiphenyl	129		136		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		75		30-150	B
Decachlorobiphenyl	90		95		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2155376
Report Date: 10/13/21

SAMPLE RESULTS

Lab ID: L2155376-01
Client ID: EP21_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/11/21 15:30
Date Received: 10/11/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.6		%	0.100	NA	1	-	10/12/21 06:51	121,2540G	RI

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2155376
Report Date: 10/13/21

SAMPLE RESULTS

Lab ID: L2155376-02
Client ID: EPSW11_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/11/21 15:40
Date Received: 10/11/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.2		%	0.100	NA	1	-	10/12/21 06:51	121,2540G	RI

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2155376
Report Date: 10/13/21

SAMPLE RESULTS

Lab ID: L2155376-03
Client ID: EPSW12_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/11/21 15:50
Date Received: 10/11/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.6		%	0.100	NA	1	-	10/12/21 06:51	121,2540G	RI

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2155376
Report Date: 10/13/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1557367-1 QC Sample: L2155233-01 Client ID: DUP Sample						
Solids, Total	74.2	71.5	%	4		20

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2155376
Report Date: 10/13/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2155376-01A	Glass 60mL/2oz unpreserved	A	NA		4.2	Y	Absent		TS(7),NYTCL-8081(14)
L2155376-02A	Glass 60mL/2oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14)
L2155376-02B	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14)
L2155376-03A	Glass 60mL/2oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14)
L2155376-03B	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14)
L2155376-04A	Amber 120ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8081(7)
L2155376-04B	Amber 120ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8081(7)
L2155376-04C	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-LVI(7)
L2155376-04D	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-LVI(7)

*Values in parentheses indicate holding time in days

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2155376
Project Number:	170599501	**Report Date:**	10/13/21

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:	1607 SURF AVENUE	**Lab Number:**	L2155376
Project Number:	170599501	**Report Date:**	10/13/21

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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2155376
Project Number:	170599501	**Report Date:**	10/13/21

Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2155376
Project Number:	170599501	**Report Date:**	10/13/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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, SM4500Cl-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, **LACHAT 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

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

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 1

Date Rec'd in Lab: 10/12/21

ALPHA Job #: L2155376

Client Information

Client: Langan
Address: 360 W 31st Street 8th floor, NYC, NY
Phone: 212 479 5400
Fax: 212 479 5444
Email: KSemon@Langan.com

Project Information

Project Name: 1607 Surf Avenue
Project Location: Brooklyn, NY
Project #: 170599501
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☒ # of Days: 2 day TAT

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☒ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ 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:

CC: Lesmail@Langan.com; data management@Langan.com

Please specify Metals or TAL.

ANALYSIS

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 Date	Collection Time	Sample Matrix	Sampler's Initials	TCL Pesticides	TCL SVOCs	Total Bottle
553716-01	EP21_-5	10/11/21	15 30	S	AR	X		
02	EPSW11_-5	10/11/21	15:40	S	AR	X	X	
03	EPSW12_-5	10/11/21	15:50	S	AR	X	X	
04	FB01_101121	10/11/21	15:35	Aq	AR	X	X	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
Ali Peach (Langan)	10/11/21 16:40	WASHINGTON AAL	10/11/21 16:40
WASHINGTON	10/11/21 19:05		10/11/21 20:31
	10/11/21		10/12/21 23:55
	10/12/21 0230		10/12/21 02:30

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2155133
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Kimberly Semon
Phone:	(212) 479-5486
Project Name:	1607 SURF AVE.
Project Number:	170599501
Report Date:	10/15/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2155133
Report Date: 10/15/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2155133-01	EP53_ -3	SOIL	BROOKLYN, NY	10/08/21 13:15	10/08/21
L2155133-02	EP61_ -3	SOIL	BROOKLYN, NY	10/08/21 13:31	10/08/21

Project Name:	1607 SURF AVE.	**Lab Number:**	L2155133
Project Number:	170599501	**Report Date:**	10/15/21

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: 1607 SURF AVE. **Lab Number:** L2155133
Project Number: 170599501 **Report Date:** 10/15/21

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.

Semivolatile Organics
The WG1556116-2/-3 LCS/LCSD recoveries, associated with L2155133-01 and -02, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Perfluorinated Alkyl Acids by Isotope Dilution
L2155133-01,WG1556918-1 and WG1556918-2 : The MeOH fraction of the extraction is reported for Perfluorooctanesulfonamide (FOSA) due to better extraction efficiency of the M8FOSA Surrogate (Extracted Internal Standard).
The Extracted Internal Standard recovery for the WG1556918-1 Method Blank, associated with L2155133-01 and -02, is below the acceptance criteria for perfluoro[13c8]octanesulfonamide (m8fosa) (less than 10%); however, all associated samples are non-detect for perfluorooctanesulfonamide (fosa); therefore, no further actions were taken.
WG1556918-2: The Extracted Internal Standard recovery is below the acceptance criteria for perfluoro[13c8]octanesulfonamide (m8fosa) (less than 10%); however, all associated target analytes are within criteria; therefore, no further action was taken.

Total Metals
L2155133-01 and -02: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.
The WG1556538-1 Method Blank, associated with L2155133-01 and -02, has concentrations above the reporting limit for iron and manganese. Since the associated sample concentrations are either greater than 10x the blank concentration or non-detect to the RL for this target analyte, no corrective action is required. Any

Project Name:	1607 SURF AVE.	**Lab Number:**	L2155133
Project Number:	170599501	**Report Date:**	10/15/21

Case Narrative (continued)

results detected below the reporting limit are qualified with a "B".

Cyanide, Total

The WG1559051-2/-3 LCS/LCSD recoveries for cyanide, total (58%/60%), associated with L2155133-01 and -02, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 10/15/21

ORGANICS

VOLATILES

Project Name: 1607 SURF AVE. **Lab Number:** L2155133

Project Number: 170599501 **Report Date:** 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-01
Client ID: EP53_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/08/21 13:15
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/14/21 01:40
Analyst: NLK
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.6	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.35	1
Tetrachloroethene	ND		ug/kg	0.66	0.26	1
Chlorobenzene	ND		ug/kg	0.66	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.3	0.92	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.66	0.22	1
Bromodichloromethane	ND		ug/kg	0.66	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.66	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.66	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.66	0.21	1
Bromoform	ND		ug/kg	5.3	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.66	0.22	1
Benzene	ND		ug/kg	0.66	0.22	1
Toluene	ND		ug/kg	1.3	0.72	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	5.3	1.2	1
Bromomethane	ND		ug/kg	2.6	0.77	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
Chloroethane	ND		ug/kg	2.6	0.60	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: 1607 SURF AVE. **Lab Number:** L2155133

Project Number: 170599501 **Report Date:** 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-01 Date Collected: 10/08/21 13:15

Client ID: EP53_ -3 Date Received: 10/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.66	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.27	1
p/m-Xylene	ND		ug/kg	2.6	0.74	1
o-Xylene	ND		ug/kg	1.3	0.39	1
Xylenes, Total	ND		ug/kg	1.3	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.32	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.4	1
Carbon disulfide	ND		ug/kg	13	6.0	1
2-Butanone	ND		ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.17	1
2-Hexanone	ND		ug/kg	13	1.6	1
Bromochloromethane	ND		ug/kg	2.6	0.27	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.37	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.66	0.18	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.16	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.3	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.3	0.86	1
Acrylonitrile	ND		ug/kg	5.3	1.5	1

Project Name: 1607 SURF AVE. **Lab Number:** L2155133

Project Number: 170599501 **Report Date:** 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-01 Date Collected: 10/08/21 13:15

Client ID: EP53_ -3 Date Received: 10/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.43	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.26	1
1,2,4-Trimethylbenzene	0.82	J	ug/kg	2.6	0.44	1
1,4-Dioxane	ND		ug/kg	110	46.	1
p-Diethylbenzene	0.43	J	ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.51	1
1,2,4,5-Tetramethylbenzene	0.26	J	ug/kg	2.6	0.25	1
Ethyl ether	ND		ug/kg	2.6	0.45	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.6	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	101		70-130

Project Name: 1607 SURF AVE.
Lab Number: L2155133
Project Number: 170599501
Report Date: 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-02
Client ID: EP61_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/08/21 13:31
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/14/21 02:06
Analyst: NLK
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.7	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.3	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.17	1
Dibromochloromethane	ND		ug/kg	1.3	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.36	1
Tetrachloroethene	ND		ug/kg	0.67	0.26	1
Chlorobenzene	ND		ug/kg	0.67	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.3	0.93	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.67	0.22	1
Bromodichloromethane	ND		ug/kg	0.67	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.67	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.67	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.67	0.21	1
Bromoform	ND		ug/kg	5.3	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.67	0.22	1
Benzene	ND		ug/kg	0.67	0.22	1
Toluene	ND		ug/kg	1.3	0.72	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	5.3	1.2	1
Bromomethane	ND		ug/kg	2.7	0.77	1
Vinyl chloride	ND		ug/kg	1.3	0.45	1
Chloroethane	ND		ug/kg	2.7	0.60	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: 1607 SURF AVE. **Lab Number:** L2155133

Project Number: 170599501 **Report Date:** 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-02 Date Collected: 10/08/21 13:31

Client ID: EP61_ -3 Date Received: 10/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.67	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.75	1
o-Xylene	ND		ug/kg	1.3	0.39	1
Xylenes, Total	ND		ug/kg	1.3	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.7	0.32	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.4	1
Carbon disulfide	ND		ug/kg	13	6.1	1
2-Butanone	ND		ug/kg	13	3.0	1
Vinyl acetate	ND		ug/kg	13	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	0.17	1
2-Hexanone	ND		ug/kg	13	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.27	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.37	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.67	0.18	1
Bromobenzene	ND		ug/kg	2.7	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.7	0.16	1
o-Chlorotoluene	ND		ug/kg	2.7	0.25	1
p-Chlorotoluene	ND		ug/kg	2.7	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.3	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.3	0.87	1
Acrylonitrile	ND		ug/kg	5.3	1.5	1

Project Name: 1607 SURF AVE. **Lab Number:** L2155133

Project Number: 170599501 **Report Date:** 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-02 Date Collected: 10/08/21 13:31

Client ID: EP61_ -3 Date Received: 10/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.43	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.44	1
1,4-Dioxane	ND		ug/kg	110	47.	1
p-Diethylbenzene	ND		ug/kg	2.7	0.24	1
p-Ethyltoluene	ND		ug/kg	2.7	0.51	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.7	0.25	1
Ethyl ether	ND		ug/kg	2.7	0.45	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.7	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	103		70-130

Project Name: 1607 SURF AVE. **Lab Number:** L2155133

Project Number: 170599501 **Report Date:** 10/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/13/21 20:27
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1558555-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2155133
Report Date: 10/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/13/21 20:27
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1558555-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1607 SURF AVE. **Lab Number:** L2155133

Project Number: 170599501 **Report Date:** 10/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/13/21 20:27
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1558555-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2155133

Report Date: 10/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1558555-3 WG1558555-4								
Methylene chloride	102		100		70-130	2		30
1,1-Dichloroethane	108		104		70-130	4		30
Chloroform	104		102		70-130	2		30
Carbon tetrachloride	115		111		70-130	4		30
1,2-Dichloropropane	105		104		70-130	1		30
Dibromochloromethane	97		95		70-130	2		30
1,1,2-Trichloroethane	103		103		70-130	0		30
Tetrachloroethene	119		112		70-130	6		30
Chlorobenzene	110		105		70-130	5		30
Trichlorofluoromethane	114		107		70-139	6		30
1,2-Dichloroethane	97		98		70-130	1		30
1,1,1-Trichloroethane	114		110		70-130	4		30
Bromodichloromethane	106		106		70-130	0		30
trans-1,3-Dichloropropene	98		98		70-130	0		30
cis-1,3-Dichloropropene	100		100		70-130	0		30
1,1-Dichloropropene	119		114		70-130	4		30
Bromoform	95		94		70-130	1		30
1,1,2,2-Tetrachloroethane	101		100		70-130	1		30
Benzene	110		106		70-130	4		30
Toluene	112		106		70-130	6		30
Ethylbenzene	115		110		70-130	4		30
Chloromethane	101		96		52-130	5		30
Bromomethane	99		90		57-147	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2155133

Report Date: 10/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1558555-3 WG1558555-4								
Vinyl chloride	110		102		67-130	8		30
Chloroethane	110		103		50-151	7		30
1,1-Dichloroethene	116		112		65-135	4		30
trans-1,2-Dichloroethene	112		108		70-130	4		30
Trichloroethene	114		110		70-130	4		30
1,2-Dichlorobenzene	108		104		70-130	4		30
1,3-Dichlorobenzene	112		106		70-130	6		30
1,4-Dichlorobenzene	109		104		70-130	5		30
Methyl tert butyl ether	102		105		66-130	3		30
p/m-Xylene	118		113		70-130	4		30
o-Xylene	117		112		70-130	4		30
cis-1,2-Dichloroethene	108		105		70-130	3		30
Dibromomethane	98		98		70-130	0		30
Styrene	119		115		70-130	3		30
Dichlorodifluoromethane	114		106		30-146	7		30
Acetone	101		105		54-140	4		30
Carbon disulfide	107		103		59-130	4		30
2-Butanone	93		99		70-130	6		30
Vinyl acetate	92		92		70-130	0		30
4-Methyl-2-pentanone	84		84		70-130	0		30
1,2,3-Trichloropropane	100		99		68-130	1		30
2-Hexanone	85		88		70-130	3		30
Bromochloromethane	104		102		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2155133

Report Date: 10/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1558555-3 WG1558555-4								
2,2-Dichloropropane	115		110		70-130	4		30
1,2-Dibromoethane	96		96		70-130	0		30
1,3-Dichloropropane	104		103		69-130	1		30
1,1,1,2-Tetrachloroethane	113		109		70-130	4		30
Bromobenzene	111		106		70-130	5		30
n-Butylbenzene	124		114		70-130	8		30
sec-Butylbenzene	121		113		70-130	7		30
tert-Butylbenzene	121		112		70-130	8		30
o-Chlorotoluene	115		109		70-130	5		30
p-Chlorotoluene	115		108		70-130	6		30
1,2-Dibromo-3-chloropropane	84		84		68-130	0		30
Hexachlorobutadiene	122		113		67-130	8		30
Isopropylbenzene	122		114		70-130	7		30
p-Isopropyltoluene	123		115		70-130	7		30
Naphthalene	104		105		70-130	1		30
Acrylonitrile	85		88		70-130	3		30
n-Propylbenzene	121		113		70-130	7		30
1,2,3-Trichlorobenzene	110		106		70-130	4		30
1,2,4-Trichlorobenzene	115		110		70-130	4		30
1,3,5-Trimethylbenzene	120		112		70-130	7		30
1,2,4-Trimethylbenzene	120		113		70-130	6		30
1,4-Dioxane	80		86		65-136	7		30
p-Diethylbenzene	123		116		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2155133

Report Date: 10/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1558555-3 WG1558555-4								
p-Ethyltoluene	121		113		70-130	7		30
1,2,4,5-Tetramethylbenzene	119		111		70-130	7		30
Ethyl ether	96		95		67-130	1		30
trans-1,4-Dichloro-2-butene	96		94		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	89		93		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	104		104		70-130
Dibromofluoromethane	96		97		70-130

SEMIVOLATILES

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2155133
Report Date: 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-01
Client ID: EP53_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/08/21 13:15
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/12/21 10:00
Analyst: JRW
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 10/09/21 02:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	290		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2155133

Project Number: 170599501 **Report Date:** 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-01 Date Collected: 10/08/21 13:15

Client ID: EP53_ -3 Date Received: 10/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	140		ug/kg	120	22.	1
Benzo(a)pyrene	140	J	ug/kg	150	47.	1
Benzo(b)fluoranthene	180		ug/kg	120	32.	1
Benzo(k)fluoranthene	60	J	ug/kg	120	31.	1
Chrysene	140		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	40	J	ug/kg	120	37.	1
Benzo(ghi)perylene	88	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	160		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	23	J	ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	98	J	ug/kg	150	27.	1
Pyrene	250		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 1607 SURF AVE.
Lab Number: L2155133
Project Number: 170599501
Report Date: 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-01
Client ID: EP53_ -3
Sample Location: BROOKLYN, NY
Date Collected: 10/08/21 13:15
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	21	J	ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	8.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	96		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	93		30-120
2,4,6-Tribromophenol	94		10-136
4-Terphenyl-d14	82		18-120

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2155133
Report Date: 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-01
Client ID: EP53_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/08/21 13:15
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/14/21 18:55
Analyst: MP
Percent Solids: 85%

Extraction Method: ALPHA 23528
Extraction Date: 10/11/21 09:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.540	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.540	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.270	0.042	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.540	0.057	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.270	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.270	0.065	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.270	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.540	0.194	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.540	0.148	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.270	0.081	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.270	0.140	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.270	0.072	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.540	0.310	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.540	0.218	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.540	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.540	0.165	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.540	0.091	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.540	0.076	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.540	0.221	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.540	0.058	1
PFOA/PFOS, Total	ND		ng/g	0.270	0.045	1

Project Name: 1607 SURF AVE. **Lab Number:** L2155133

Project Number: 170599501 **Report Date:** 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-01 Date Collected: 10/08/21 13:15

Client ID: EP53_ -3 Date Received: 10/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	88		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	92		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	86		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	94		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	92		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	97		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	109		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	73		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	99		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	79		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	88		24-159

Project Name: 1607 SURF AVE.
Lab Number: L2155133
Project Number: 170599501
Report Date: 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-01
Client ID: EP53_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/08/21 13:15
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/15/21 09:19
Analyst: MP
Percent Solids: 85%

Extraction Method: ALPHA 23528
Extraction Date: 10/11/21 09:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.540	0.106	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	74		10-117

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2155133
Report Date: 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-02
Client ID: EP61_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/08/21 13:31
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/12/21 10:24
Analyst: JRW
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 10/09/21 02:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	800		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	72.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2155133

Project Number: 170599501 **Report Date:** 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-02 Date Collected: 10/08/21 13:31

Client ID: EP61_ -3 Date Received: 10/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	420		ug/kg	120	24.	1
Benzo(a)pyrene	350		ug/kg	170	51.	1
Benzo(b)fluoranthene	450		ug/kg	120	35.	1
Benzo(k)fluoranthene	150		ug/kg	120	33.	1
Chrysene	340		ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	120		ug/kg	120	41.	1
Benzo(ghi)perylene	190		ug/kg	170	24.	1
Fluorene	34	J	ug/kg	210	20.	1
Phenanthrene	410		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	55	J	ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	220		ug/kg	170	29.	1
Pyrene	630		ug/kg	120	21.	1
Biphenyl	ND		ug/kg	480	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	78.	1
4-Nitrophenol	ND		ug/kg	290	85.	1
2,4-Dinitrophenol	ND		ug/kg	1000	97.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 1607 SURF AVE.
Lab Number: L2155133
Project Number: 170599501
Report Date: 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-02
Client ID: EP61_ -3
Sample Location: BROOKLYN, NY
Date Collected: 10/08/21 13:31
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	25	J	ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	31	9.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	110		25-120
Phenol-d6	104		10-120
Nitrobenzene-d5	109		23-120
2-Fluorobiphenyl	101		30-120
2,4,6-Tribromophenol	108		10-136
4-Terphenyl-d14	93		18-120

Project Name: 1607 SURF AVE.
Lab Number: L2155133
Project Number: 170599501
Report Date: 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-02
Client ID: EP61_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/08/21 13:31
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/14/21 19:12
Analyst: MP
Percent Solids: 80%

Extraction Method: ALPHA 23528
Extraction Date: 10/11/21 09:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.594	0.027	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.594	0.055	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.297	0.046	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.594	0.062	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.297	0.054	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.297	0.072	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.297	0.050	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.594	0.213	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.594	0.162	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.297	0.089	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.297	0.154	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.297	0.080	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.594	0.341	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.594	0.239	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.594	0.056	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.594	0.182	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.594	0.116	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.594	0.100	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.594	0.083	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.594	0.243	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.594	0.064	1
PFOA/PFOS, Total	ND		ng/g	0.297	0.050	1

Project Name: 1607 SURF AVE. **Lab Number:** L2155133

Project Number: 170599501 **Report Date:** 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-02 Date Collected: 10/08/21 13:31

Client ID: EP61_ -3 Date Received: 10/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	88		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	90		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	86		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	88		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	91		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	88		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	92		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	102		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	70		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	102		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	14		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	80		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	79		24-159

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2155133
Report Date: 10/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/08/21 21:38
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 10/08/21 09:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1556116-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2155133
Report Date: 10/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/08/21 21:38
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 10/08/21 09:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1556116-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2155133
Report Date: 10/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/08/21 21:38
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 10/08/21 09:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1556116-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	70		10-136
4-Terphenyl-d14	67		18-120

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2155133
Report Date: 10/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/14/21 16:26
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 10/11/21 09:44

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-02 Batch: WG1556918-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2155133
Report Date: 10/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/14/21 16:26
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 10/11/21 09:44

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-02 Batch: WG1556918-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	66		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	69		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	84		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	70		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	75		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	87		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	79		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	80		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	83		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	86		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	78		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	95		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	56		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	82		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**2**	Q	10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	56		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	77		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	57		24-159

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2155133
Report Date: 10/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/15/21 09:05
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 10/11/21 09:44

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-02 Batch: WG1556918-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	78		10-117

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2155133

Report Date: 10/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1556116-2 WG1556116-3								
Acenaphthene	56		60		31-137	7		50
1,2,4-Trichlorobenzene	58		63		38-107	8		50
Hexachlorobenzene	61		63		40-140	3		50
Bis(2-chloroethyl)ether	56		59		40-140	5		50
2-Chloronaphthalene	62		64		40-140	3		50
1,2-Dichlorobenzene	57		64		40-140	12		50
1,3-Dichlorobenzene	57		64		40-140	12		50
1,4-Dichlorobenzene	58		64		28-104	10		50
3,3'-Dichlorobenzidine	55		55		40-140	0		50
2,4-Dinitrotoluene	62		67		40-132	8		50
2,6-Dinitrotoluene	71		71		40-140	0		50
Fluoranthene	59		65		40-140	10		50
4-Chlorophenyl phenyl ether	61		65		40-140	6		50
4-Bromophenyl phenyl ether	63		68		40-140	8		50
Bis(2-chloroisopropyl)ether	80		88		40-140	10		50
Bis(2-chloroethoxy)methane	60		63		40-117	5		50
Hexachlorobutadiene	61		66		40-140	8		50
Hexachlorocyclopentadiene	52		53		40-140	2		50
Hexachloroethane	62		68		40-140	9		50
Isophorone	59		64		40-140	8		50
Naphthalene	61		64		40-140	5		50
Nitrobenzene	67		71		40-140	6		50
NDPA/DPA	64		68		36-157	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2155133

Report Date: 10/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1556116-2 WG1556116-3								
n-Nitrosodi-n-propylamine	63		66		32-121	5		50
Bis(2-ethylhexyl)phthalate	77		84		40-140	9		50
Butyl benzyl phthalate	65		70		40-140	7		50
Di-n-butylphthalate	66		71		40-140	7		50
Di-n-octylphthalate	74		81		40-140	9		50
Diethyl phthalate	65		67		40-140	3		50
Dimethyl phthalate	62		63		40-140	2		50
Benzo(a)anthracene	62		67		40-140	8		50
Benzo(a)pyrene	65		71		40-140	9		50
Benzo(b)fluoranthene	63		67		40-140	6		50
Benzo(k)fluoranthene	61		69		40-140	12		50
Chrysene	59		63		40-140	7		50
Acenaphthylene	65		69		40-140	6		50
Anthracene	57		62		40-140	8		50
Benzo(ghi)perylene	60		66		40-140	10		50
Fluorene	63		67		40-140	6		50
Phenanthrene	56		63		40-140	12		50
Dibenzo(a,h)anthracene	57		62		40-140	8		50
Indeno(1,2,3-cd)pyrene	58		63		40-140	8		50
Pyrene	58		64		35-142	10		50
Biphenyl	60		62		37-127	3		50
4-Chloroaniline	59		54		40-140	9		50
2-Nitroaniline	71		75		47-134	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2155133

Report Date: 10/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1556116-2 WG1556116-3								
3-Nitroaniline	58		58		26-129	0		50
4-Nitroaniline	60		60		41-125	0		50
Dibenzofuran	63		66		40-140	5		50
2-Methylnaphthalene	60		63		40-140	5		50
1,2,4,5-Tetrachlorobenzene	61		63		40-117	3		50
Acetophenone	56		61		14-144	9		50
2,4,6-Trichlorophenol	69		71		30-130	3		50
p-Chloro-m-cresol	72		74		26-103	3		50
2-Chlorophenol	64		70		25-102	9		50
2,4-Dichlorophenol	68		72		30-130	6		50
2,4-Dimethylphenol	66		71		30-130	7		50
2-Nitrophenol	72		77		30-130	7		50
4-Nitrophenol	79		82		11-114	4		50
2,4-Dinitrophenol	45		46		4-130	2		50
4,6-Dinitro-o-cresol	66		69		10-130	4		50
Pentachlorophenol	53		56		17-109	6		50
Phenol	58		63		26-90	8		50
2-Methylphenol	66		71		30-130.	7		50
3-Methylphenol/4-Methylphenol	64		68		30-130	6		50
2,4,5-Trichlorophenol	71		72		30-130	1		50
Benzoic Acid	**0**	Q	**0**	Q	10-110	NC		50
Benzyl Alcohol	66		68		40-140	3		50
Carbazole	58		65		54-128	11		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2155133

Report Date: 10/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1556116-2 WG1556116-3								
1,4-Dioxane	45		52		40-140	14		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		77		25-120
Phenol-d6	69		75		10-120
Nitrobenzene-d5	69		74		23-120
2-Fluorobiphenyl	65		68		30-120
2,4,6-Tribromophenol	68		69		10-136
4-Terphenyl-d14	59		64		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2155133

Report Date: 10/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02 Batch: WG1556918-2								
Perfluorobutanoic Acid (PFBA)	93		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	92		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	92		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	91		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	92		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	90		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	92		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	103		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	90		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	90		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	93		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	88		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	86		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	97		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	96		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	92		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	95		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	88		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	95		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	99		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	88		-		69-133	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2155133

Report Date: 10/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02 Batch: WG1556918-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	71				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	75				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	88				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	76				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	78				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	91				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	83				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	85				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	86				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	88				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	84				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	92				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	57				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	88				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**3**	Q			10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	63				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	81				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	59				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2155133

Report Date: 10/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab	Associated sample(s): 01-02		Batch: WG1556918-2					
Perfluorooctanesulfonamide (FOSA)	102		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	84				10-117

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2155133
Report Date: 10/15/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1556918-3 WG1556918-4 QC Sample: L2154206-02 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	5.18	4.73	91		4.58	92		71-135	3		30
Perfluoropentanoic Acid (PFPeA)	ND	5.18	4.72	91		4.57	92		69-132	3		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.6	4.26	93		4.13	93		72-128	3		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	4.85	4.73	98		4.70	101		62-145	1		30
Perfluorohexanoic Acid (PFHxA)	ND	5.18	4.66	90		4.49	90		70-132	4		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	4.87	4.53	93		4.37	93		73-123	4		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.18	4.76	92		4.55	91		71-131	5		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.74	4.31	91		4.10	90		67-130	5		30
Perfluorooctanoic Acid (PFOA)	ND	5.18	4.91	95		4.61	93		69-133	6		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.93	4.88	99		4.55	96		64-140	7		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.93	4.32	88		4.10	87		70-132	5		30
Perfluorononanoic Acid (PFNA)	ND	5.18	4.63	89		4.56	92		72-129	2		30
Perfluorooctanesulfonic Acid (PFOS)	ND	4.81	4.45	93		4.31	93		68-136	3		30
Perfluorodecanoic Acid (PFDA)	ND	5.18	4.68	90		4.46	90		69-133	5		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.98	4.46	90		4.38	92		65-137	2		30
Perfluorononanesulfonic Acid (PFNS)	ND	4.99	4.33	87		4.19	88		69-125	3		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.18	5.47	106		4.26	86		63-144	25		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.18	4.69	91		4.48	90		64-136	5		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5	4.47	90		4.35	91		59-134	3		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.18	4.33	84		4.22	85		61-139	3		30
Perfluorododecanoic Acid (PFDoA)	ND	5.18	4.88	94		4.70	94		69-135	4		30
Perfluorotridecanoic Acid (PFTrDA)	ND	5.18	4.84	93		5.06	102		66-139	4		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2155133

Report Date: 10/15/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1556918-3 WG1556918-4 QC Sample: L2154206-02 Client ID: MS Sample												
Perfluorotetradecanoic Acid (PFTA)	ND	5.18	4.68	90		4.49	90		69-133	4		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	82		86		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	66		66		14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	75		81		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**29**	Q	35		34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**25**	Q	36		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	78		84		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	**74**	Q	80		75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	**65**	Q	77		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	**69**	Q	78		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	81		84		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	70		74		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	44		53		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	62		79		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	65		79		58-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	83		85		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	**73**	Q	81		75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	77		83		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	80		82		74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2155133

Report Date: 10/15/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1556918-3 WG1556918-4 QC Sample: L2154206-02 Client ID: MS Sample												
Perfluorooctanesulfonamide (FOSA)	ND	5.18	5.26	101		5.18	104		67-137	2		30

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	78		80		10-117

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2155133

Report Date: 10/15/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1556918-5 WG1556918-6 QC Sample: L2154674-08 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	4.91	4.49	91		4.55	91		71-135	1		30
Perfluoropentanoic Acid (PFPeA)	ND	4.91	4.47	91		4.56	91		69-132	2		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.36	3.98	91		3.97	89		72-128	0		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	4.6	4.43	96		4.46	95		62-145	1		30
Perfluorohexanoic Acid (PFHxA)	ND	4.91	4.41	90		4.53	90		70-132	3		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	4.62	4.14	90		4.38	93		73-123	6		30
Perfluoroheptanoic Acid (PFHpA)	ND	4.91	4.48	91		4.55	91		71-131	2		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.49	4.03	90		4.14	90		67-130	3		30
Perfluorooctanoic Acid (PFOA)	ND	4.91	4.66	95		4.63	92		69-133	1		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.68	4.66	100		4.61	97		64-140	1		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.68	4.20	90		4.31	90		70-132	3		30
Perfluorononanoic Acid (PFNA)	ND	4.91	4.40	90		4.56	91		72-129	4		30
Perfluorooctanesulfonic Acid (PFOS)	ND	4.56	4.20	92		4.37	94		68-136	4		30
Perfluorodecanoic Acid (PFDA)	ND	4.91	4.27	87		4.60	92		69-133	7		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.72	3.88	82		4.34	90		65-137	11		30
Perfluorononanesulfonic Acid (PFNS)	ND	4.72	4.24	90		4.23	88		69-125	0		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	4.91	4.77	97		4.64	93		63-144	3		30
Perfluoroundecanoic Acid (PFUnA)	ND	4.91	4.47	91		4.63	92		64-136	4		30
Perfluorodecanesulfonic Acid (PFDS)	ND	4.74	3.77	80		3.92	81		59-134	4		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	4.91	4.63	94		4.40	88		61-139	5		30
Perfluorododecanoic Acid (PFDoA)	ND	4.91	4.51	92		4.48	89		69-135	1		30
Perfluorotridecanoic Acid (PFTrDA)	ND	4.91	4.48	91		4.13	82		66-139	8		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2155133
Report Date: 10/15/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1556918-5 WG1556918-6 QC Sample: L2154674-08 Client ID: MS Sample												
Perfluorotetradecanoic Acid (PFTA)	ND	4.91	4.64	95		4.47	89		69-133	4		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	70		70		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	63		61		14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	68		72		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**23**	Q	**23**	Q	34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**28**	Q	**27**	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	66		67		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	**66**	Q	**64**	Q	75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	**60**	Q	**60**	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	**62**	Q	**63**	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	**74**	Q	**75**	Q	78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	54		59		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	**21**	Q	**17**	Q	24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	61		**60**	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	62		61		58-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	**70**	Q	**73**	Q	79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	**65**	Q	**66**	Q	75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	**67**	Q	**68**	Q	72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	74		75		74-139

PCBS

Project Name: 1607 SURF AVE.
Lab Number: L2155133
Project Number: 170599501
Report Date: 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-01
Client ID: EP53_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/08/21 13:15
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/11/21 19:44
Analyst: CW
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 10/09/21 02:48
Cleanup Method: EPA 3665A
Cleanup Date: 10/09/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/10/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.2	3.30	1	A
Aroclor 1221	ND		ug/kg	37.2	3.73	1	A
Aroclor 1232	ND		ug/kg	37.2	7.89	1	A
Aroclor 1242	ND		ug/kg	37.2	5.02	1	A
Aroclor 1248	ND		ug/kg	37.2	5.58	1	A
Aroclor 1254	ND		ug/kg	37.2	4.07	1	A
Aroclor 1260	ND		ug/kg	37.2	6.88	1	A
Aroclor 1262	ND		ug/kg	37.2	4.73	1	A
Aroclor 1268	ND		ug/kg	37.2	3.86	1	A
PCBs, Total	ND		ug/kg	37.2	3.30	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2155133
Project Number: 170599501
Report Date: 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-02
Client ID: EP61_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/08/21 13:31
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/11/21 19:57
Analyst: CW
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 10/09/21 02:48
Cleanup Method: EPA 3665A
Cleanup Date: 10/09/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/10/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.5	3.51	1	A
Aroclor 1221	ND		ug/kg	39.5	3.96	1	A
Aroclor 1232	ND		ug/kg	39.5	8.38	1	A
Aroclor 1242	ND		ug/kg	39.5	5.32	1	A
Aroclor 1248	ND		ug/kg	39.5	5.92	1	A
Aroclor 1254	ND		ug/kg	39.5	4.32	1	A
Aroclor 1260	ND		ug/kg	39.5	7.30	1	A
Aroclor 1262	ND		ug/kg	39.5	5.02	1	A
Aroclor 1268	ND		ug/kg	39.5	4.09	1	A
PCBs, Total	ND		ug/kg	39.5	3.51	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2155133
Report Date: 10/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/08/21 19:20
Analyst: AD

Extraction Method: EPA 3546
Extraction Date: 10/08/21 10:41
Cleanup Method: EPA 3665A
Cleanup Date: 10/08/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1556160-1						
Aroclor 1016	ND		ug/kg	32.2	2.86	A
Aroclor 1221	ND		ug/kg	32.2	3.23	A
Aroclor 1232	ND		ug/kg	32.2	6.84	A
Aroclor 1242	ND		ug/kg	32.2	4.35	A
Aroclor 1248	ND		ug/kg	32.2	4.84	A
Aroclor 1254	ND		ug/kg	32.2	3.53	A
Aroclor 1260	ND		ug/kg	32.2	5.96	A
Aroclor 1262	ND		ug/kg	32.2	4.10	A
Aroclor 1268	ND		ug/kg	32.2	3.34	A
PCBs, Total	ND		ug/kg	32.2	2.86	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	82		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2155133

Report Date: 10/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1556160-2 WG1556160-3									
Aroclor 1016	87		82		40-140	6		50	A
Aroclor 1260	92		88		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		69		30-150	A
Decachlorobiphenyl	79		76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		70		30-150	B
Decachlorobiphenyl	84		81		30-150	B

PESTICIDES

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2155133
Report Date: 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-01
Client ID: EP53_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/08/21 13:15
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/11/21 17:37
Analyst: SDC
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 10/09/21 02:45
Cleanup Method: EPA 3620B
Cleanup Date: 10/10/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.88	0.368	1	A
Lindane	ND		ug/kg	0.784	0.350	1	A
Alpha-BHC	ND		ug/kg	0.784	0.222	1	A
Beta-BHC	ND		ug/kg	1.88	0.713	1	A
Heptachlor	ND		ug/kg	0.940	0.422	1	A
Aldrin	ND		ug/kg	1.88	0.662	1	A
Heptachlor epoxide	ND		ug/kg	3.53	1.06	1	A
Endrin	ND		ug/kg	0.784	0.321	1	A
Endrin aldehyde	ND		ug/kg	2.35	0.823	1	A
Endrin ketone	ND		ug/kg	1.88	0.484	1	A
Dieldrin	ND		ug/kg	1.18	0.588	1	A
4,4'-DDE	4.09		ug/kg	1.88	0.435	1	B
4,4'-DDD	1.58	J	ug/kg	1.88	0.671	1	A
4,4'-DDT	5.17		ug/kg	3.53	1.51	1	A
Endosulfan I	ND		ug/kg	1.88	0.444	1	A
Endosulfan II	ND		ug/kg	1.88	0.628	1	A
Endosulfan sulfate	ND		ug/kg	0.784	0.373	1	A
Methoxychlor	ND		ug/kg	3.53	1.10	1	A
Toxaphene	ND		ug/kg	35.3	9.87	1	A
cis-Chlordane	ND		ug/kg	2.35	0.655	1	A
trans-Chlordane	0.821	J	ug/kg	2.35	0.621	1	A
Chlordane	ND		ug/kg	15.7	6.23	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2155133

Project Number: 170599501 **Report Date:** 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-01 Date Collected: 10/08/21 13:15

Client ID: EP53_ -3 Date Received: 10/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2155133
Project Number: 170599501
Report Date: 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-01
Client ID: EP53_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/08/21 13:15
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/11/21 14:22
Analyst: AR
Percent Solids: 85%
Methylation Date: 10/11/21 07:35

Extraction Method: EPA 8151A
Extraction Date: 10/09/21 04:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	196	12.4	1	A
2,4,5-T	ND		ug/kg	196	6.08	1	A
2,4,5-TP (Silvex)	ND		ug/kg	196	5.22	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	86		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2155133
Report Date: 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-02
Client ID: EP61_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/08/21 13:31
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/11/21 17:48
Analyst: SDC
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 10/09/21 02:45
Cleanup Method: EPA 3620B
Cleanup Date: 10/10/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.90	0.371	1	A
Lindane	ND		ug/kg	0.790	0.353	1	A
Alpha-BHC	ND		ug/kg	0.790	0.224	1	A
Beta-BHC	ND		ug/kg	1.90	0.719	1	A
Heptachlor	ND		ug/kg	0.948	0.425	1	A
Aldrin	ND		ug/kg	1.90	0.668	1	A
Heptachlor epoxide	ND		ug/kg	3.56	1.07	1	A
Endrin	ND		ug/kg	0.790	0.324	1	A
Endrin aldehyde	ND		ug/kg	2.37	0.830	1	A
Endrin ketone	ND		ug/kg	1.90	0.488	1	A
Dieldrin	ND		ug/kg	1.18	0.592	1	A
4,4'-DDE	1.34	J	ug/kg	1.90	0.438	1	B
4,4'-DDD	0.728	J	ug/kg	1.90	0.676	1	B
4,4'-DDT	1.54	J	ug/kg	3.56	1.52	1	A
Endosulfan I	ND		ug/kg	1.90	0.448	1	A
Endosulfan II	ND		ug/kg	1.90	0.634	1	A
Endosulfan sulfate	ND		ug/kg	0.790	0.376	1	A
Methoxychlor	ND		ug/kg	3.56	1.11	1	A
Toxaphene	ND		ug/kg	35.6	9.96	1	A
cis-Chlordane	ND		ug/kg	2.37	0.660	1	B
trans-Chlordane	ND	IP	ug/kg	2.37	0.626	1	B
Chlordane	ND		ug/kg	15.8	6.28	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2155133

Project Number: 170599501 **Report Date:** 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-02 Date Collected: 10/08/21 13:31

Client ID: EP61_ -3 Date Received: 10/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2155133
Project Number: 170599501
Report Date: 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-02
Client ID: EP61_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/08/21 13:31
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/11/21 14:40
Analyst: AR
Percent Solids: 80%
Methylation Date: 10/11/21 07:35

Extraction Method: EPA 8151A
Extraction Date: 10/09/21 04:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	204	12.8	1	A
2,4,5-T	ND		ug/kg	204	6.32	1	A
2,4,5-TP (Silvex)	ND		ug/kg	204	5.42	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	75		30-150	A
DCAA	71		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2155133
Report Date: 10/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/09/21 10:27
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 10/08/21 08:25
Cleanup Method: EPA 3620B
Cleanup Date: 10/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1556066-1						
Delta-BHC	ND		ug/kg	1.57	0.308	A
Lindane	ND		ug/kg	0.654	0.292	A
Alpha-BHC	ND		ug/kg	0.654	0.186	A
Beta-BHC	ND		ug/kg	1.57	0.596	A
Heptachlor	ND		ug/kg	0.785	0.352	A
Aldrin	ND		ug/kg	1.57	0.553	A
Heptachlor epoxide	ND		ug/kg	2.94	0.884	A
Endrin	ND		ug/kg	0.654	0.268	A
Endrin aldehyde	ND		ug/kg	1.96	0.687	A
Endrin ketone	ND		ug/kg	1.57	0.404	A
Dieldrin	ND		ug/kg	0.982	0.491	A
4,4'-DDE	ND		ug/kg	1.57	0.363	A
4,4'-DDD	ND		ug/kg	1.57	0.560	A
4,4'-DDT	ND		ug/kg	2.94	1.26	A
Endosulfan I	ND		ug/kg	1.57	0.371	A
Endosulfan II	ND		ug/kg	1.57	0.525	A
Endosulfan sulfate	ND		ug/kg	0.654	0.312	A
Methoxychlor	ND		ug/kg	2.94	0.916	A
Toxaphene	ND		ug/kg	29.4	8.25	A
cis-Chlordane	ND		ug/kg	1.96	0.547	A
trans-Chlordane	ND		ug/kg	1.96	0.518	A
Chlordane	ND		ug/kg	13.1	5.20	A

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2155133
Report Date: 10/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/09/21 10:27
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 10/08/21 08:25
Cleanup Method: EPA 3620B
Cleanup Date: 10/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1556066-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	89		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2155133
Report Date: 10/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 10/11/21 11:02
Analyst: SDC

Extraction Method: EPA 8151A
Extraction Date: 10/09/21 03:27

Methylation Date: 10/11/21 07:35

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1556471-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.03	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	86		30-150	A
DCAA	81		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2155133

Report Date: 10/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1556066-2 WG1556066-3									
Delta-BHC	82		81		30-150	1		30	A
Lindane	87		86		30-150	1		30	A
Alpha-BHC	89		88		30-150	1		30	A
Beta-BHC	76		76		30-150	0		30	A
Heptachlor	87		86		30-150	1		30	A
Aldrin	86		85		30-150	1		30	A
Heptachlor epoxide	79		77		30-150	3		30	A
Endrin	93		90		30-150	3		30	A
Endrin aldehyde	69		70		30-150	1		30	A
Endrin ketone	87		86		30-150	1		30	A
Dieldrin	93		91		30-150	2		30	A
4,4'-DDE	86		84		30-150	2		30	A
4,4'-DDD	90		88		30-150	2		30	A
4,4'-DDT	90		87		30-150	3		30	A
Endosulfan I	82		80		30-150	2		30	A
Endosulfan II	87		86		30-150	1		30	A
Endosulfan sulfate	74		74		30-150	0		30	A
Methoxychlor	82		80		30-150	2		30	A
cis-Chlordane	75		74		30-150	1		30	A
trans-Chlordane	82		82		30-150	0		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2155133

Report Date: 10/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1556066-2 WG1556066-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		69		30-150	A
Decachlorobiphenyl	104		96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		73		30-150	B
Decachlorobiphenyl	105		102		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2155133

Report Date: 10/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1556471-2 WG1556471-3									
2,4-D	81		79		30-150	3		30	A
2,4,5-T	82		81		30-150	1		30	A
2,4,5-TP (Silvex)	84		81		30-150	4		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	84		85		30-150	A
DCAA	82		82		30-150	B

METALS

Project Name: 1607 SURF AVE.
Lab Number: L2155133
Project Number: 170599501
Report Date: 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-01
Client ID: EP53_ -3
Sample Location: BROOKLYN, NY
Date Collected: 10/08/21 13:15
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	522		mg/kg	9.16	2.47	2	10/09/21 10:00	10/11/21 11:05	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.58	0.348	2	10/09/21 10:00	10/11/21 11:05	EPA 3050B	1,6010D	SV
Arsenic, Total	0.495	J	mg/kg	0.916	0.190	2	10/09/21 10:00	10/11/21 11:05	EPA 3050B	1,6010D	SV
Barium, Total	9.47		mg/kg	0.916	0.159	2	10/09/21 10:00	10/11/21 11:05	EPA 3050B	1,6010D	SV
Beryllium, Total	0.037	J	mg/kg	0.458	0.030	2	10/09/21 10:00	10/11/21 11:05	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.916	0.090	2	10/09/21 10:00	10/11/21 11:05	EPA 3050B	1,6010D	SV
Calcium, Total	1070		mg/kg	9.16	3.20	2	10/09/21 10:00	10/11/21 11:05	EPA 3050B	1,6010D	SV
Chromium, Total	2.58		mg/kg	0.915	0.088	2	10/11/21 20:44	10/12/21 10:05	EPA 3050B	1,6010D	GD
Cobalt, Total	0.604	J	mg/kg	1.83	0.152	2	10/09/21 10:00	10/11/21 11:05	EPA 3050B	1,6010D	SV
Copper, Total	2.47		mg/kg	0.916	0.236	2	10/09/21 10:00	10/11/21 11:05	EPA 3050B	1,6010D	SV
Iron, Total	1280		mg/kg	4.58	0.827	2	10/09/21 10:00	10/11/21 11:05	EPA 3050B	1,6010D	SV
Lead, Total	13.6		mg/kg	4.58	0.245	2	10/09/21 10:00	10/11/21 11:05	EPA 3050B	1,6010D	SV
Magnesium, Total	324		mg/kg	9.16	1.41	2	10/09/21 10:00	10/11/21 11:05	EPA 3050B	1,6010D	SV
Manganese, Total	13.4		mg/kg	0.916	0.146	2	10/09/21 10:00	10/11/21 11:05	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.075	0.049	1	10/09/21 11:00	10/09/21 13:38	EPA 7471B	1,7471B	NB
Nickel, Total	1.93	J	mg/kg	2.29	0.222	2	10/09/21 10:00	10/11/21 11:05	EPA 3050B	1,6010D	SV
Potassium, Total	140	J	mg/kg	229	13.2	2	10/09/21 10:00	10/11/21 11:05	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.83	0.236	2	10/09/21 10:00	10/11/21 11:05	EPA 3050B	1,6010D	SV
Silver, Total	0.540	J	mg/kg	0.916	0.259	2	10/09/21 10:00	10/11/21 11:05	EPA 3050B	1,6010D	SV
Sodium, Total	217		mg/kg	183	2.88	2	10/09/21 10:00	10/11/21 11:05	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.83	0.288	2	10/09/21 10:00	10/11/21 11:05	EPA 3050B	1,6010D	SV
Vanadium, Total	3.25		mg/kg	0.916	0.186	2	10/09/21 10:00	10/11/21 11:05	EPA 3050B	1,6010D	SV
Zinc, Total	26.0		mg/kg	4.58	0.268	2	10/09/21 10:00	10/11/21 11:05	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.6		mg/kg	0.95	0.95	1		10/14/21 11:15	NA	107,-	

Project Name: 1607 SURF AVE.
Lab Number: L2155133
Project Number: 170599501
Report Date: 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-02
Client ID: EP61_ -3
Sample Location: BROOKLYN, NY
Date Collected: 10/08/21 13:31
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	465		mg/kg	9.80	2.64	2	10/09/21 10:00	10/11/21 11:10	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.90	0.372	2	10/09/21 10:00	10/11/21 11:10	EPA 3050B	1,6010D	SV
Arsenic, Total	0.382	J	mg/kg	0.980	0.204	2	10/09/21 10:00	10/11/21 11:10	EPA 3050B	1,6010D	SV
Barium, Total	7.70		mg/kg	0.980	0.170	2	10/09/21 10:00	10/11/21 11:10	EPA 3050B	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.490	0.032	2	10/09/21 10:00	10/11/21 11:10	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.980	0.096	2	10/09/21 10:00	10/11/21 11:10	EPA 3050B	1,6010D	SV
Calcium, Total	844		mg/kg	9.80	3.43	2	10/09/21 10:00	10/11/21 11:10	EPA 3050B	1,6010D	SV
Chromium, Total	2.42		mg/kg	0.965	0.093	2	10/11/21 20:44	10/12/21 10:37	EPA 3050B	1,6010D	GD
Cobalt, Total	0.490	J	mg/kg	1.96	0.163	2	10/09/21 10:00	10/11/21 11:10	EPA 3050B	1,6010D	SV
Copper, Total	2.71		mg/kg	0.980	0.253	2	10/09/21 10:00	10/11/21 11:10	EPA 3050B	1,6010D	SV
Iron, Total	1110		mg/kg	4.90	0.885	2	10/09/21 10:00	10/11/21 11:10	EPA 3050B	1,6010D	SV
Lead, Total	11.0		mg/kg	4.90	0.263	2	10/09/21 10:00	10/11/21 11:10	EPA 3050B	1,6010D	SV
Magnesium, Total	266		mg/kg	9.80	1.51	2	10/09/21 10:00	10/11/21 11:10	EPA 3050B	1,6010D	SV
Manganese, Total	10.4		mg/kg	0.980	0.156	2	10/09/21 10:00	10/11/21 11:10	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.079	0.052	1	10/09/21 11:00	10/09/21 13:41	EPA 7471B	1,7471B	NB
Nickel, Total	1.45	J	mg/kg	2.45	0.237	2	10/09/21 10:00	10/11/21 11:10	EPA 3050B	1,6010D	SV
Potassium, Total	116	J	mg/kg	245	14.1	2	10/09/21 10:00	10/11/21 11:10	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.96	0.253	2	10/09/21 10:00	10/11/21 11:10	EPA 3050B	1,6010D	SV
Silver, Total	0.382	J	mg/kg	0.980	0.277	2	10/09/21 10:00	10/11/21 11:10	EPA 3050B	1,6010D	SV
Sodium, Total	112	J	mg/kg	196	3.09	2	10/09/21 10:00	10/11/21 11:10	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.96	0.309	2	10/09/21 10:00	10/11/21 11:10	EPA 3050B	1,6010D	SV
Vanadium, Total	2.44		mg/kg	0.980	0.199	2	10/09/21 10:00	10/11/21 11:10	EPA 3050B	1,6010D	SV
Zinc, Total	23.8		mg/kg	4.90	0.287	2	10/09/21 10:00	10/11/21 11:10	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.2	J	mg/kg	1.0	1.0	1		10/14/21 11:15	NA	107,-	

Project Name: 1607 SURF AVE. **Lab Number:** L2155133

Project Number: 170599501 **Report Date:** 10/15/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1556538-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	10/09/21 10:00	10/11/21 11:46	1,6010D	SV
Antimony, Total	ND		mg/kg	2.00	0.152	1	10/09/21 10:00	10/11/21 11:46	1,6010D	SV
Arsenic, Total	ND		mg/kg	0.400	0.083	1	10/09/21 10:00	10/11/21 11:46	1,6010D	SV
Barium, Total	ND		mg/kg	0.400	0.070	1	10/09/21 10:00	10/11/21 11:46	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.200	0.013	1	10/09/21 10:00	10/11/21 11:46	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.400	0.039	1	10/09/21 10:00	10/11/21 11:46	1,6010D	SV
Calcium, Total	1.60	J	mg/kg	4.00	1.40	1	10/09/21 10:00	10/11/21 11:46	1,6010D	SV
Chromium, Total	2.56		mg/kg	0.400	0.038	1	10/09/21 10:00	10/11/21 11:46	1,6010D	SV
Cobalt, Total	ND		mg/kg	0.800	0.066	1	10/09/21 10:00	10/11/21 11:46	1,6010D	SV
Copper, Total	ND		mg/kg	0.400	0.103	1	10/09/21 10:00	10/11/21 11:46	1,6010D	SV
Iron, Total	48.8		mg/kg	2.00	0.361	1	10/09/21 10:00	10/11/21 11:46	1,6010D	SV
Lead, Total	ND		mg/kg	2.00	0.107	1	10/09/21 10:00	10/11/21 11:46	1,6010D	SV
Magnesium, Total	ND		mg/kg	4.00	0.616	1	10/09/21 10:00	10/11/21 11:46	1,6010D	SV
Manganese, Total	0.680		mg/kg	0.400	0.064	1	10/09/21 10:00	10/11/21 11:46	1,6010D	SV
Nickel, Total	0.252	J	mg/kg	1.00	0.097	1	10/09/21 10:00	10/11/21 11:46	1,6010D	SV
Potassium, Total	ND		mg/kg	100	5.76	1	10/09/21 10:00	10/11/21 11:46	1,6010D	SV
Selenium, Total	ND		mg/kg	0.800	0.103	1	10/09/21 10:00	10/11/21 11:46	1,6010D	SV
Silver, Total	ND		mg/kg	0.400	0.113	1	10/09/21 10:00	10/11/21 11:46	1,6010D	SV
Sodium, Total	18.8	J	mg/kg	80.0	1.26	1	10/09/21 10:00	10/11/21 11:46	1,6010D	SV
Thallium, Total	ND		mg/kg	0.800	0.126	1	10/09/21 10:00	10/11/21 11:46	1,6010D	SV
Vanadium, Total	ND		mg/kg	0.400	0.081	1	10/09/21 10:00	10/11/21 11:46	1,6010D	SV
Zinc, Total	ND		mg/kg	2.00	0.117	1	10/09/21 10:00	10/11/21 11:46	1,6010D	SV

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1556540-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/09/21 11:00	10/09/21 12:55	1,7471B	NB

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2155133
Report Date: 10/15/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1557181-1										
Chromium, Total	0.048	J	mg/kg	0.400	0.038	1	10/11/21 20:44	10/12/21 08:59	1,6010D	GD

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2155133

Report Date: 10/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1556538-2 SRM Lot Number: D109-540								
Aluminum, Total	58		-		50-150	-		
Antimony, Total	124		-		19-250	-		
Arsenic, Total	97		-		70-130	-		
Barium, Total	87		-		75-125	-		
Beryllium, Total	83		-		75-125	-		
Cadmium, Total	91		-		75-125	-		
Calcium, Total	90		-		73-128	-		
Chromium, Total	95		-		70-130	-		
Cobalt, Total	91		-		75-125	-		
Copper, Total	96		-		75-125	-		
Iron, Total	87		-		35-165	-		
Lead, Total	92		-		72-128	-		
Magnesium, Total	76		-		62-138	-		
Manganese, Total	80		-		74-126	-		
Nickel, Total	91		-		70-130	-		
Potassium, Total	76		-		59-141	-		
Selenium, Total	94		-		68-132	-		
Silver, Total	98		-		68-131	-		
Sodium, Total	104		-		35-165	-		
Thallium, Total	89		-		68-131	-		
Vanadium, Total	96		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2155133

Report Date: 10/15/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1556538-2 SRM Lot Number: D109-540					
Zinc, Total	92	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1556540-2 SRM Lot Number: D109-540					
Mercury, Total	93	-	60-140	-	
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1557181-2 SRM Lot Number: D109-540					
Chromium, Total	72	-	70-130	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2155133
Report Date: 10/15/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1556538-3 QC Sample: L2155196-01 Client ID: MS Sample												
Aluminum, Total	3170	171	4150	**574**	Q	-	-		75-125	-		20
Antimony, Total	ND	42.7	31.8	**74**	Q	-	-		75-125	-		20
Arsenic, Total	2.97	10.2	12.3	91		-	-		75-125	-		20
Barium, Total	25.6	171	177	89		-	-		75-125	-		20
Beryllium, Total	0.179J	4.27	3.61	84		-	-		75-125	-		20
Cadmium, Total	0.292J	4.52	3.97	88		-	-		75-125	-		20
Calcium, Total	3160	854	5240	**244**	Q	-	-		75-125	-		20
Cobalt, Total	3.66	42.7	37.5	79		-	-		75-125	-		20
Copper, Total	25.8	21.3	44.9	89		-	-		75-125	-		20
Iron, Total	8410	85.4	9540	**1320**	Q	-	-		75-125	-		20
Lead, Total	87.4	45.2	128	90		-	-		75-125	-		20
Magnesium, Total	1970	854	3260	**151**	Q	-	-		75-125	-		20
Manganese, Total	159	42.7	206	110		-	-		75-125	-		20
Nickel, Total	8.52	42.7	41.5	77		-	-		75-125	-		20
Potassium, Total	385	854	1150	90		-	-		75-125	-		20
Selenium, Total	ND	10.2	8.25	80		-	-		75-125	-		20
Silver, Total	ND	25.6	23.6	92		-	-		75-125	-		20
Sodium, Total	377	854	1190	95		-	-		75-125	-		20
Thallium, Total	ND	10.2	7.69	75		-	-		75-125	-		20
Vanadium, Total	15.5	42.7	52.4	86		-	-		75-125	-		20
Zinc, Total	60.5	42.7	100	92		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2155133
Report Date: 10/15/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1556540-3 QC Sample: L2155196-01 Client ID: MS Sample										
Mercury, Total	0.056J	0.137	0.182	**133**	Q	-	-	80-120	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1557181-3 QC Sample: L2154800-03 Client ID: MS Sample										
Chromium, Total	17.6	19.3	51.2	**174**	Q	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2155133
Report Date: 10/15/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1556538-4 QC Sample: L2155196-01 Client ID: DUP Sample						
Aluminum, Total	3170	3580	mg/kg	12		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	2.97	2.92	mg/kg	2		20
Barium, Total	25.6	31.2	mg/kg	20		20
Beryllium, Total	0.179J	0.198J	mg/kg	NC		20
Cadmium, Total	0.292J	0.305J	mg/kg	NC		20
Calcium, Total	3160	3400	mg/kg	7		20
Cobalt, Total	3.66	3.94	mg/kg	7		20
Copper, Total	25.8	24.4	mg/kg	6		20
Iron, Total	8410	8850	mg/kg	5		20
Lead, Total	87.4	77.1	mg/kg	13		20
Magnesium, Total	1970	2080	mg/kg	5		20
Manganese, Total	159	163	mg/kg	2		20
Nickel, Total	8.52	8.61	mg/kg	1		20
Potassium, Total	385	402	mg/kg	4		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	377	414	mg/kg	9		20
Thallium, Total	ND	ND	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2155133
Report Date: 10/15/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1556538-4 QC Sample: L2155196-01 Client ID: DUP Sample					
Vanadium, Total	15.5	15.1	mg/kg	3	20
Zinc, Total	60.5	67.4	mg/kg	11	20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1556540-4 QC Sample: L2155196-01 Client ID: DUP Sample					
Mercury, Total	0.056J	0.062J	mg/kg	NC	20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1557181-4 QC Sample: L2154800-03 Client ID: DUP Sample					
Chromium, Total	17.6	17.2	mg/kg	2	20

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2155133
Report Date: 10/15/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1556538-6 QC Sample: L2155196-01 Client ID: DUP Sample						
Aluminum, Total	3170	3800	mg/kg	20		20
Barium, Total	25.6	30.4	mg/kg	19		20
Calcium, Total	3160	3780	mg/kg	20		20
Copper, Total	25.8	30.0	mg/kg	16		20
Iron, Total	8410	10000	mg/kg	19		20
Magnesium, Total	1970	2330	mg/kg	18		20
Manganese, Total	159	193	mg/kg	**21**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2155133
Report Date: 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-01
Client ID: EP53_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/08/21 13:15
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.5		%	0.100	NA	1	-	10/09/21 09:04	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	10/15/21 10:30	10/15/21 16:26	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.947	0.189	1	10/13/21 08:50	10/14/21 11:15	1,7196A	JT

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2155133
Report Date: 10/15/21

SAMPLE RESULTS

Lab ID: L2155133-02
Client ID: EP61_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/08/21 13:31
Date Received: 10/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.6		%	0.100	NA	1	-	10/09/21 09:04	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	10/15/21 10:30	10/15/21 16:18	1,9010C/9012B	JO
Chromium, Hexavalent	0.251	J	mg/kg	1.00	0.201	1	10/13/21 08:50	10/14/21 11:15	1,7196A	JT

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2155133
Report Date: 10/15/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1557531-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	10/13/21 08:50	10/14/21 11:15	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1559051-1										
Cyanide, Total	ND		mg/kg	0.96	0.20	1	10/15/21 10:30	10/15/21 15:57	1,9010C/9012B	JO

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2155133

Report Date: 10/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1557531-2								
Chromium, Hexavalent	84		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1559051-2 WG1559051-3								
Cyanide, Total	**58**	Q	**60**	Q	80-120	2		35

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2155133
Report Date: 10/15/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1557531-4 QC Sample: L2155133-02 Client ID: EP61_ -3												
Chromium, Hexavalent	0.251J	1220	1210	99		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1559051-4 WG1559051-5 QC Sample: L2155133-01 Client ID: EP53_ -3												
Cyanide, Total	ND	11	14	120		14	120		75-125	0		35

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2155133

Report Date: 10/15/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1556497-1 QC Sample: L2155103-01 Client ID: DUP Sample						
Solids, Total	77.6	77.9	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1557531-6 QC Sample: L2155133-02 Client ID: EP61_ -3						
Chromium, Hexavalent	0.251J	ND	mg/kg	NC		20

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2155133
Report Date: 10/15/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2155133-01A	Vial MeOH preserved	A	NA		3.7	Y	Absent		NYTCL-8260HLW(14)
L2155133-01B	Vial water preserved	A	NA		3.7	Y	Absent	09-OCT-21 02:52	NYTCL-8260HLW(14)
L2155133-01C	Vial water preserved	A	NA		3.7	Y	Absent	09-OCT-21 02:52	NYTCL-8260HLW(14)
L2155133-01D	Plastic 2oz unpreserved for TS	A	NA		3.7	Y	Absent		TS(7)
L2155133-01E	Plastic 120ml unpreserved	A	NA		3.7	Y	Absent		TS(7)
L2155133-01F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),PB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NA-TI(180),CD-TI(180),CA-TI(180),K-TI(180)
L2155133-01G	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2155133-01H	Plastic 8oz unpreserved	A	NA		3.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2155133-01I	Glass 500ml/16oz unpreserved	A	NA		3.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2155133-02A	Vial MeOH preserved	A	NA		3.7	Y	Absent		NYTCL-8260HLW(14)
L2155133-02B	Vial water preserved	A	NA		3.7	Y	Absent	09-OCT-21 02:52	NYTCL-8260HLW(14)
L2155133-02C	Vial water preserved	A	NA		3.7	Y	Absent	09-OCT-21 02:52	NYTCL-8260HLW(14)
L2155133-02D	Plastic 2oz unpreserved for TS	A	NA		3.7	Y	Absent		TS(7)
L2155133-02E	Plastic 120ml unpreserved	A	NA		3.7	Y	Absent		TS(7)
L2155133-02F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.7	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2155133-02G	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2155133
Report Date: 10/15/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2155133-02H	Plastic 8oz unpreserved	A	NA		3.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2155133-02I	Glass 500ml/16oz unpreserved	A	NA		3.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

Container Comments

L2155133-01A	Labeled as collected 08-OCT-21 13:16
L2155133-01B	Labeled as collected 08-OCT-21 13:16
L2155133-01C	Labeled as collected 08-OCT-21 13:16
L2155133-01D	Labeled as collected 08-OCT-21 13:16
L2155133-01G	Labeled as collected 08-OCT-21 13:18
L2155133-01H	Labeled as collected 08-OCT-21 13:16
L2155133-01I	Labeled as collected 08-OCT-21 13:16
L2155133-02A	Labeled as collected 08-OCT-21 13:15
L2155133-02B	Labeled as collected 08-OCT-21 13:15
L2155133-02C	Labeled as collected 08-OCT-21 13:15

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVE.
Project Number: 170599501
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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	1607 SURF AVE.	**Lab Number:**	L2155133
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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:	1607 SURF AVE.	**Lab Number:**	L2155133
Project Number:	170599501	**Report Date:**	10/15/21

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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

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Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVE.	**Lab Number:**	L2155133
Project Number:	170599501	**Report Date:**	10/15/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

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, SM4500Cl-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, **LACHAT 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

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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 of

Date Rec'd in Lab: 10/9/21

ALPHA Job #: L2155133

Client Information
Client: Langan
Address:
Phone:
Fax:
Email: Ksimon@langan.com

Project Information
Project Name: 1607 Surf Ave
Project Location: Brooklyn, NY
Project #: 170599501
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date: All analytical data to be submitted in one pdf report
Rush (only if pre approved) ☐ # of Days: 5 TAT 5 days including PFAS

Deliverables
☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☑ Same as Client Info
PO #

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:
cc: iesmail@langan.com ; data management@langan.com
Ksimon@langan.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs	TCL Pesticides	TAL Metal	TCN	Hex/Trichromium	PFAS	1,4-dioxane	Herbicides PCBs	Sample Specific Comments	Total Bottle
55133-01	EP53_-3	10/8	1315	S	GEC	X	X	X	X	X	X	X	X		
-02	EP61_-3	10/8	1331	S	GES	X	X	X	X	X	X	X	X		

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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

Relinquished By:	Date/Time	Received By:	Date/Time
Gabriel Enriquez-Cabrera	10/8/21 1515	[illegible] (AAL)	10/8/21 1515
[illegible] (AAL)	10/8/21 1910	[illegible] AAL	10/8 1930
[illegible] AAL	10/8	[illegible] AAL	10/8/21 23:00
[illegible] AAL	10/9/21 01:40	[illegible]	10/9/21 01:40

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2156303
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Kimberly Semon
Phone:	(212) 479-5486
Project Name:	1607 SURF AVENUE
Project Number:	170599501
Report Date:	10/15/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156303
Report Date: 10/15/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2156303-01	EP21_ -6	SOIL	BROOKLYN, NY	10/14/21 15:00	10/14/21
L2156303-02	EPSW12_ -6	SOIL	BROOKLYN, NY	10/14/21 15:03	10/14/21

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2156303
Project Number:	170599501	**Report Date:**	10/15/21

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:	1607 SURF AVENUE	**Lab Number:**	L2156303
Project Number:	170599501	**Report Date:**	10/15/21

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.

Sample Receipt

L2156303-02: The collection date and time on the chain of custody was 14-OCT-21 15:05; however, the collection date/time on the container label was 14-OCT-21 15:03. At the client's request, the collection date/time is reported as 14-OCT-21 15:03.

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: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 10/15/21

ORGANICS

PESTICIDES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156303
Report Date: 10/15/21

SAMPLE RESULTS

Lab ID: L2156303-01
Client ID: EP21_ -6
Sample Location: BROOKLYN, NY

Date Collected: 10/14/21 15:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/15/21 09:31
Analyst: AR
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 10/15/21 04:26
Cleanup Method: EPA 3620B
Cleanup Date: 10/15/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.00	0.393	1	A
Lindane	ND		ug/kg	0.836	0.374	1	A
Alpha-BHC	ND		ug/kg	0.836	0.237	1	A
Beta-BHC	ND		ug/kg	2.00	0.760	1	A
Heptachlor	ND		ug/kg	1.00	0.450	1	A
Aldrin	ND		ug/kg	2.00	0.706	1	A
Heptachlor epoxide	ND		ug/kg	3.76	1.13	1	A
Endrin	ND		ug/kg	0.836	0.343	1	A
Endrin aldehyde	ND		ug/kg	2.51	0.878	1	A
Endrin ketone	ND		ug/kg	2.00	0.516	1	A
Dieldrin	ND		ug/kg	1.25	0.627	1	A
4,4'-DDE	ND		ug/kg	2.00	0.464	1	A
4,4'-DDD	ND		ug/kg	2.00	0.715	1	A
4,4'-DDT	ND		ug/kg	3.76	1.61	1	A
Endosulfan I	ND		ug/kg	2.00	0.474	1	A
Endosulfan II	ND		ug/kg	2.00	0.670	1	A
Endosulfan sulfate	ND		ug/kg	0.836	0.398	1	A
Methoxychlor	ND		ug/kg	3.76	1.17	1	A
Toxaphene	ND		ug/kg	37.6	10.5	1	A
cis-Chlordane	ND		ug/kg	2.51	0.699	1	A
trans-Chlordane	ND		ug/kg	2.51	0.662	1	A
Chlordane	ND		ug/kg	16.7	6.64	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2156303

Project Number: 170599501 **Report Date:** 10/15/21

SAMPLE RESULTS

Lab ID: L2156303-01 Date Collected: 10/14/21 15:00

Client ID: EP21_ -6 Date Received: 10/14/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156303
Report Date: 10/15/21

SAMPLE RESULTS

Lab ID: L2156303-02
Client ID: EPSW12_ -6
Sample Location: BROOKLYN, NY

Date Collected: 10/14/21 15:03
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/15/21 09:42
Analyst: AR
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 10/15/21 04:26
Cleanup Method: EPA 3620B
Cleanup Date: 10/15/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.06	0.404	1	A
Lindane	ND		ug/kg	0.860	0.385	1	A
Alpha-BHC	ND		ug/kg	0.860	0.244	1	A
Beta-BHC	ND		ug/kg	2.06	0.783	1	A
Heptachlor	ND		ug/kg	1.03	0.463	1	A
Aldrin	ND		ug/kg	2.06	0.727	1	A
Heptachlor epoxide	ND		ug/kg	3.87	1.16	1	A
Endrin	ND		ug/kg	0.860	0.353	1	A
Endrin aldehyde	ND		ug/kg	2.58	0.904	1	A
Endrin ketone	ND		ug/kg	2.06	0.532	1	A
Dieldrin	ND		ug/kg	1.29	0.645	1	A
4,4'-DDE	ND		ug/kg	2.06	0.478	1	A
4,4'-DDD	ND		ug/kg	2.06	0.737	1	A
4,4'-DDT	ND		ug/kg	3.87	1.66	1	A
Endosulfan I	ND		ug/kg	2.06	0.488	1	A
Endosulfan II	ND		ug/kg	2.06	0.690	1	A
Endosulfan sulfate	ND		ug/kg	0.860	0.410	1	A
Methoxychlor	ND		ug/kg	3.87	1.20	1	A
Toxaphene	ND		ug/kg	38.7	10.8	1	A
cis-Chlordane	ND		ug/kg	2.58	0.719	1	A
trans-Chlordane	ND		ug/kg	2.58	0.682	1	A
Chlordane	ND		ug/kg	17.2	6.84	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2156303

Project Number: 170599501 **Report Date:** 10/15/21

SAMPLE RESULTS

Lab ID: L2156303-02 Date Collected: 10/14/21 15:03

Client ID: EPSW12_ -6 Date Received: 10/14/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156303
Report Date: 10/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/15/21 08:57
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 10/15/21 04:26
Cleanup Method: EPA 3620B
Cleanup Date: 10/15/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1558948-1						
Delta-BHC	ND		ug/kg	1.52	0.299	A
Lindane	ND		ug/kg	0.636	0.284	A
Alpha-BHC	ND		ug/kg	0.636	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.578	A
Heptachlor	ND		ug/kg	0.763	0.342	A
Aldrin	ND		ug/kg	1.52	0.537	A
Heptachlor epoxide	ND		ug/kg	2.86	0.858	A
Endrin	ND		ug/kg	0.636	0.261	A
Endrin aldehyde	ND		ug/kg	1.91	0.668	A
Endrin ketone	ND		ug/kg	1.52	0.393	A
Dieldrin	ND		ug/kg	0.954	0.477	A
4,4'-DDE	ND		ug/kg	1.52	0.353	A
4,4'-DDD	ND		ug/kg	1.52	0.544	A
4,4'-DDT	ND		ug/kg	2.86	1.23	A
Endosulfan I	ND		ug/kg	1.52	0.360	A
Endosulfan II	ND		ug/kg	1.52	0.510	A
Endosulfan sulfate	ND		ug/kg	0.636	0.303	A
Methoxychlor	ND		ug/kg	2.86	0.890	A
Toxaphene	ND		ug/kg	28.6	8.01	A
cis-Chlordane	ND		ug/kg	1.91	0.531	A
trans-Chlordane	ND		ug/kg	1.91	0.503	A
Chlordane	ND		ug/kg	12.7	5.05	A

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156303
Report Date: 10/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/15/21 08:57
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 10/15/21 04:26
Cleanup Method: EPA 3620B
Cleanup Date: 10/15/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1558948-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	60		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2156303

Report Date: 10/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1558948-2 WG1558948-3									
Delta-BHC	53		57		30-150	7		30	A
Lindane	56		59		30-150	5		30	A
Alpha-BHC	56		59		30-150	5		30	A
Beta-BHC	56		60		30-150	7		30	A
Heptachlor	65		71		30-150	9		30	A
Aldrin	62		66		30-150	6		30	A
Heptachlor epoxide	43		46		30-150	7		30	A
Endrin	64		70		30-150	9		30	A
Endrin aldehyde	61		64		30-150	5		30	A
Endrin ketone	60		64		30-150	6		30	A
Dieldrin	66		70		30-150	6		30	A
4,4'-DDE	60		64		30-150	6		30	A
4,4'-DDD	66		71		30-150	7		30	A
4,4'-DDT	65		71		30-150	9		30	A
Endosulfan I	59		63		30-150	7		30	A
Endosulfan II	64		68		30-150	6		30	A
Endosulfan sulfate	59		63		30-150	7		30	A
Methoxychlor	58		62		30-150	7		30	A
cis-Chlordane	52		56		30-150	7		30	A
trans-Chlordane	69		75		30-150	8		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2156303

Report Date: 10/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1558948-2 WG1558948-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		59		30-150	A
Decachlorobiphenyl	85		92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		53		30-150	B
Decachlorobiphenyl	66		72		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156303
Report Date: 10/15/21

SAMPLE RESULTS

Lab ID: L2156303-01
Client ID: EP21_ -6
Sample Location: BROOKLYN, NY

Date Collected: 10/14/21 15:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.6		%	0.100	NA	1	-	10/15/21 04:34	121,2540G	MA

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156303
Report Date: 10/15/21

SAMPLE RESULTS

Lab ID: L2156303-02
Client ID: EPSW12_ -6
Sample Location: BROOKLYN, NY

Date Collected: 10/14/21 15:03
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.5		%	0.100	NA	1	-	10/15/21 04:34	121,2540G	MA

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2156303

Report Date: 10/15/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1558949-1 QC Sample: L2156303-01 Client ID: EP21_ -6						
Solids, Total	76.6	76.1	%	1		20

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156303
Report Date: 10/15/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156303-01A	Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		TS(7),NYTCL-8081(14)
L2156303-02A	Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		TS(7),NYTCL-8081(14)

*Values in parentheses indicate holding time in days

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2156303
Project Number:	170599501	**Report Date:**	10/15/21

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:	1607 SURF AVENUE	**Lab Number:**	L2156303
Project Number:	170599501	**Report Date:**	10/15/21

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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2156303
Project Number:	170599501	**Report Date:**	10/15/21

Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2156303
Project Number:	170599501	**Report Date:**	10/15/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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, SM4500Cl-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, **LACHAT 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

ALPHA ANALYTICAL

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8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
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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 1

Date Rec'd in Lab: 10/15/21

ALPHA Job #: L2156303

Client Information
Client: Langan
Address:
Phone:
Fax:
Email: ksemonr@langan.com

Project Information
Project Name: 1607 Surf Avenue
Project Location: Brooklyn, NY
Project #: 170599501
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☒ # of Days: 24 hrs TAT

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

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:
cc: Lesmail@langan.com; datamanagement.com

Please specify Metals or TAL.

ANALYSIS
TCL Pesticides

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL Pesticides	Sample Specific Comments
L6303-01	EP21--6	10/14/21	1500	S	GEC	X	
02	EPSW12-6	10/14/21	1505	S	GEC	X	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	10/14/21 1530		10/14/21 15:55
	10/14/21 18:18	AAL	10/14 1930
AAL	10/14		10/14/21 22:30
AAL	10/15/21 01:30		10/15/21 01:30

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2156956
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Kimberly Semon
Phone:	(212) 479-5486
Project Name:	1607 SURF AVENUE
Project Number:	170599501
Report Date:	10/25/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2156956-01	EP51_ -5	SOIL	BROOKLYN, NY	10/18/21 10:00	10/18/21
L2156956-02	EP52_ -5	SOIL	BROOKLYN, NY	10/18/21 10:05	10/18/21
L2156956-03	EP59_ -5	SOIL	BROOKLYN, NY	10/18/21 10:10	10/18/21
L2156956-04	EP60_ -5	SOIL	BROOKLYN, NY	10/18/21 10:15	10/18/21
L2156956-05	EPSW15_ -5	SOIL	BROOKLYN, NY	10/18/21 13:00	10/18/21
L2156956-06	EPSW16_ -5	SOIL	BROOKLYN, NY	10/18/21 13:10	10/18/21
L2156956-07	EPSW17_ -5	SOIL	BROOKLYN, NY	10/18/21 13:20	10/18/21
L2156956-08	EPSW18_ -5	SOIL	BROOKLYN, NY	10/18/21 13:30	10/18/21
L2156956-09	EPSW19_ -5	SOIL	BROOKLYN, NY	10/18/21 13:40	10/18/21
L2156956-10	EP49_ -3	SOIL	BROOKLYN, NY	10/18/21 15:30	10/18/21
L2156956-11	EP50_ -3	SOIL	BROOKLYN, NY	10/18/21 15:40	10/18/21
L2156956-12	EP57_ -3	SOIL	BROOKLYN, NY	10/18/21 15:50	10/18/21
L2156956-13	EP58_ -3	SOIL	BROOKLYN, NY	10/18/21 16:00	10/18/21

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2156956
Project Number:	170599501	**Report Date:**	10/25/21

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: 1607 SURF AVENUE **Lab Number:** L2156956
Project Number: 170599501 **Report Date:** 10/25/21

Case Narrative (continued)

Report Submission
October 25, 2021: This final report includes the results of all requested analyses.
October 22, 2021: This is a preliminary report.

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

Semivolatile Organics
The WG1560541-4/-5 MS/MSD recoveries, performed on L2156956-12, are below the acceptance criteria for 2,4-dinitrophenol (0%/0%) and benzoic acid (0%/0%) due to the concentration of these compounds in the MS/MSD falling below the reported detection limit.

Perfluorinated Alkyl Acids by Isotope Dilution
L2156956-04 and -11: The MeOH fraction of the extraction is reported for Perfluorooctanesulfonamide (FOSA) due to better extraction efficiency of the M8FOSA Surrogate (Extracted Internal Standard).
The Extracted Internal Standard recovery for the WG1560280-1 Method Blank, associated with L2156956-01 through -13, is below the acceptance criteria for perfluoro[13c8]octanesulfonamide (m8fosa) (less than 10%); however, all associated samples are non-detect for perfluorooctanesulfonamide (fosa); therefore, no further actions were taken.
WG1560280-2: The Extracted Internal Standard recovery is below the acceptance criteria for perfluoro[13c8]octanesulfonamide (m8fosa) (less than 10%); however, all associated target analytes are within criteria; therefore, no further action was taken.

Total Metals
L2156956-01 through -13: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.
The WG1560435-3/-4 MS/MSD recoveries for iron (155%/152%), performed on L2156956-12, do not apply

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2156956
Project Number:	170599501	**Report Date:**	10/25/21

Case Narrative (continued)

because the sample concentrations are greater than four times the spike amount added.
The WG1560435-3/-4 MS/MSD recoveries, performed on L2156956-12, are outside the acceptance criteria for aluminum (142%/138%). A post digestion spike was performed and was within acceptance criteria.

Cyanide, Total
The WG1561057-3 LCSD recovery for cyanide, total (42%), associated with L2156956-01 through -05, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.
The WG1561057-2/-3 LCS/LCSD RPD, associated with L2156956-01 through -05, is above the acceptance criteria for cyanide, total (69%).
The WG1561063-3 LCSD recovery for cyanide, total (42%), associated with L2156956-06 through -13, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.
The WG1561063-2/-3 LCS/LCSD RPD, associated with L2156956-06 through -13, is above the acceptance criteria for cyanide, total (69%).

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: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 10/25/21

ORGANICS

VOLATILES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-01
Client ID: EP51_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:00
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/21/21 01:09
Analyst: NLK
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.9	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.59	0.23	1
Chlorobenzene	ND		ug/kg	0.59	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.82	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.59	0.20	1
Bromodichloromethane	ND		ug/kg	0.59	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.59	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.59	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.59	0.19	1
Bromoform	ND		ug/kg	4.7	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.59	0.20	1
Benzene	ND		ug/kg	0.59	0.20	1
Toluene	ND		ug/kg	1.2	0.64	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.7	1.1	1
Bromomethane	ND		ug/kg	2.4	0.69	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.53	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-01 Date Collected: 10/18/21 10:00

Client ID: EP51_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.59	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.66	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.7	1
Carbon disulfide	ND		ug/kg	12	5.4	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.59	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.22	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.7	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.7	0.77	1
Acrylonitrile	ND		ug/kg	4.7	1.4	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-01 Date Collected: 10/18/21 10:00

Client ID: EP51_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	95	42.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.45	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.22	1
Ethyl ether	ND		ug/kg	2.4	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	115		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-02
Client ID: EP52_ -5
Sample Location: BROOKLYN, NY
Date Collected: 10/18/21 10:05
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/21/21 01:35
Analyst: NLK
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.18	1
Benzene	ND		ug/kg	0.56	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.65	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-02 Date Collected: 10/18/21 10:05

Client ID: EP52_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.72	1
Acrylonitrile	ND		ug/kg	4.4	1.3	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-02 Date Collected: 10/18/21 10:05

Client ID: EP52_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	89	39.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.43	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	112		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-03
Client ID: EP59_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:10
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/21/21 02:01
Analyst: NLK
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	8.4	3.8	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.24	1
Chloroform	ND		ug/kg	2.5	0.23	1
Carbon tetrachloride	ND		ug/kg	1.7	0.38	1
1,2-Dichloropropane	ND		ug/kg	1.7	0.21	1
Dibromochloromethane	ND		ug/kg	1.7	0.23	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.45	1
Tetrachloroethene	ND		ug/kg	0.84	0.33	1
Chlorobenzene	ND		ug/kg	0.84	0.21	1
Trichlorofluoromethane	ND		ug/kg	6.7	1.2	1
1,2-Dichloroethane	ND		ug/kg	1.7	0.43	1
1,1,1-Trichloroethane	ND		ug/kg	0.84	0.28	1
Bromodichloromethane	ND		ug/kg	0.84	0.18	1
trans-1,3-Dichloropropene	ND		ug/kg	1.7	0.46	1
cis-1,3-Dichloropropene	ND		ug/kg	0.84	0.26	1
1,3-Dichloropropene, Total	ND		ug/kg	0.84	0.26	1
1,1-Dichloropropene	ND		ug/kg	0.84	0.27	1
Bromoform	ND		ug/kg	6.7	0.41	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.84	0.28	1
Benzene	ND		ug/kg	0.84	0.28	1
Toluene	ND		ug/kg	1.7	0.91	1
Ethylbenzene	ND		ug/kg	1.7	0.24	1
Chloromethane	ND		ug/kg	6.7	1.6	1
Bromomethane	ND		ug/kg	3.3	0.97	1
Vinyl chloride	ND		ug/kg	1.7	0.56	1
Chloroethane	ND		ug/kg	3.3	0.76	1
1,1-Dichloroethene	ND		ug/kg	1.7	0.40	1
trans-1,2-Dichloroethene	ND		ug/kg	2.5	0.23	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-03 Date Collected: 10/18/21 10:10

Client ID: EP59_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.84	0.23	1
1,2-Dichlorobenzene	ND		ug/kg	3.3	0.24	1
1,3-Dichlorobenzene	ND		ug/kg	3.3	0.25	1
1,4-Dichlorobenzene	ND		ug/kg	3.3	0.29	1
Methyl tert butyl ether	ND		ug/kg	3.3	0.34	1
p/m-Xylene	ND		ug/kg	3.3	0.94	1
o-Xylene	ND		ug/kg	1.7	0.49	1
Xylenes, Total	ND		ug/kg	1.7	0.49	1
cis-1,2-Dichloroethene	ND		ug/kg	1.7	0.29	1
1,2-Dichloroethene, Total	ND		ug/kg	1.7	0.23	1
Dibromomethane	ND		ug/kg	3.3	0.40	1
Styrene	ND		ug/kg	1.7	0.33	1
Dichlorodifluoromethane	ND		ug/kg	17	1.5	1
Acetone	ND		ug/kg	17	8.0	1
Carbon disulfide	ND		ug/kg	17	7.6	1
2-Butanone	ND		ug/kg	17	3.7	1
Vinyl acetate	ND		ug/kg	17	3.6	1
4-Methyl-2-pentanone	ND		ug/kg	17	2.1	1
1,2,3-Trichloropropane	ND		ug/kg	3.3	0.21	1
2-Hexanone	ND		ug/kg	17	2.0	1
Bromochloromethane	ND		ug/kg	3.3	0.34	1
2,2-Dichloropropane	ND		ug/kg	3.3	0.34	1
1,2-Dibromoethane	ND		ug/kg	1.7	0.47	1
1,3-Dichloropropane	ND		ug/kg	3.3	0.28	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.84	0.22	1
Bromobenzene	ND		ug/kg	3.3	0.24	1
n-Butylbenzene	ND		ug/kg	1.7	0.28	1
sec-Butylbenzene	ND		ug/kg	1.7	0.24	1
tert-Butylbenzene	ND		ug/kg	3.3	0.20	1
o-Chlorotoluene	ND		ug/kg	3.3	0.32	1
p-Chlorotoluene	ND		ug/kg	3.3	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	1.7	1
Hexachlorobutadiene	ND		ug/kg	6.7	0.28	1
Isopropylbenzene	ND		ug/kg	1.7	0.18	1
p-Isopropyltoluene	ND		ug/kg	1.7	0.18	1
Naphthalene	ND		ug/kg	6.7	1.1	1
Acrylonitrile	ND		ug/kg	6.7	1.9	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-03 Date Collected: 10/18/21 10:10

Client ID: EP59_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.7	0.29	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.3	0.54	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.3	0.46	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.3	0.32	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.3	0.56	1
1,4-Dioxane	ND		ug/kg	130	59.	1
p-Diethylbenzene	ND		ug/kg	3.3	0.30	1
p-Ethyltoluene	ND		ug/kg	3.3	0.64	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.3	0.32	1
Ethyl ether	ND		ug/kg	3.3	0.57	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	8.4	2.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	112		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-04
Client ID: EP60_ -5
Sample Location: BROOKLYN, NY
Date Collected: 10/18/21 10:15
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/21/21 02:27
Analyst: NLK
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Bromodichloromethane	ND		ug/kg	0.53	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.53	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.53	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	0.18	1
Benzene	ND		ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.99	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-04 Date Collected: 10/18/21 10:15

Client ID: EP60_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.53	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.31	1
Xylenes, Total	ND		ug/kg	1.0	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.21	1
Dichlorodifluoromethane	ND		ug/kg	10	0.97	1
Acetone	ND		ug/kg	10	5.1	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.53	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.18	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.12	1
Naphthalene	ND		ug/kg	4.2	0.69	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-04 Date Collected: 10/18/21 10:15

Client ID: EP60_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	85	37.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.19	1
p-Ethyltoluene	ND		ug/kg	2.1	0.41	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.3	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	113		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-05
Client ID: EPSW15_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:00
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/21/21 02:53
Analyst: NLK
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	2.4	J	ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.28	1
Tetrachloroethene	ND		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Bromodichloromethane	ND		ug/kg	0.53	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.53	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.53	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	0.18	1
Benzene	ND		ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	0.99	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-05 Date Collected: 10/18/21 13:00

Client ID: EPSW15_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.53	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
Xylenes, Total	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.98	1
Acetone	ND		ug/kg	11	5.1	1
Carbon disulfide	ND		ug/kg	11	4.8	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.14	1
2-Hexanone	ND		ug/kg	11	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.53	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.3	0.69	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-05 Date Collected: 10/18/21 13:00

Client ID: EPSW15_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.36	1
1,4-Dioxane	ND		ug/kg	85	37.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.19	1
p-Ethyltoluene	ND		ug/kg	2.1	0.41	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.3	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	115		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-06
Client ID: EPSW16_ -5
Sample Location: BROOKLYN, NY
Date Collected: 10/18/21 13:10
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/21/21 03:19
Analyst: NLK
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	8.9	4.1	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.26	1
Chloroform	ND		ug/kg	2.7	0.25	1
Carbon tetrachloride	ND		ug/kg	1.8	0.41	1
1,2-Dichloropropane	ND		ug/kg	1.8	0.22	1
Dibromochloromethane	ND		ug/kg	1.8	0.25	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.48	1
Tetrachloroethene	ND		ug/kg	0.89	0.35	1
Chlorobenzene	ND		ug/kg	0.89	0.23	1
Trichlorofluoromethane	ND		ug/kg	7.1	1.2	1
1,2-Dichloroethane	ND		ug/kg	1.8	0.46	1
1,1,1-Trichloroethane	ND		ug/kg	0.89	0.30	1
Bromodichloromethane	ND		ug/kg	0.89	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.8	0.49	1
cis-1,3-Dichloropropene	ND		ug/kg	0.89	0.28	1
1,3-Dichloropropene, Total	ND		ug/kg	0.89	0.28	1
1,1-Dichloropropene	ND		ug/kg	0.89	0.28	1
Bromoform	ND		ug/kg	7.1	0.44	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.89	0.30	1
Benzene	ND		ug/kg	0.89	0.30	1
Toluene	ND		ug/kg	1.8	0.97	1
Ethylbenzene	ND		ug/kg	1.8	0.25	1
Chloromethane	ND		ug/kg	7.1	1.6	1
Bromomethane	ND		ug/kg	3.6	1.0	1
Vinyl chloride	ND		ug/kg	1.8	0.60	1
Chloroethane	ND		ug/kg	3.6	0.80	1
1,1-Dichloroethene	ND		ug/kg	1.8	0.42	1
trans-1,2-Dichloroethene	ND		ug/kg	2.7	0.24	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-06 Date Collected: 10/18/21 13:10

Client ID: EPSW16_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.89	0.24	1
1,2-Dichlorobenzene	ND		ug/kg	3.6	0.26	1
1,3-Dichlorobenzene	ND		ug/kg	3.6	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	3.6	0.30	1
Methyl tert butyl ether	ND		ug/kg	3.6	0.36	1
p/m-Xylene	ND		ug/kg	3.6	1.0	1
o-Xylene	ND		ug/kg	1.8	0.52	1
Xylenes, Total	ND		ug/kg	1.8	0.52	1
cis-1,2-Dichloroethene	ND		ug/kg	1.8	0.31	1
1,2-Dichloroethene, Total	ND		ug/kg	1.8	0.24	1
Dibromomethane	ND		ug/kg	3.6	0.42	1
Styrene	ND		ug/kg	1.8	0.35	1
Dichlorodifluoromethane	ND		ug/kg	18	1.6	1
Acetone	ND		ug/kg	18	8.6	1
Carbon disulfide	ND		ug/kg	18	8.1	1
2-Butanone	ND		ug/kg	18	4.0	1
Vinyl acetate	ND		ug/kg	18	3.8	1
4-Methyl-2-pentanone	ND		ug/kg	18	2.3	1
1,2,3-Trichloropropane	ND		ug/kg	3.6	0.23	1
2-Hexanone	ND		ug/kg	18	2.1	1
Bromochloromethane	ND		ug/kg	3.6	0.36	1
2,2-Dichloropropane	ND		ug/kg	3.6	0.36	1
1,2-Dibromoethane	ND		ug/kg	1.8	0.50	1
1,3-Dichloropropane	ND		ug/kg	3.6	0.30	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.89	0.24	1
Bromobenzene	ND		ug/kg	3.6	0.26	1
n-Butylbenzene	ND		ug/kg	1.8	0.30	1
sec-Butylbenzene	ND		ug/kg	1.8	0.26	1
tert-Butylbenzene	ND		ug/kg	3.6	0.21	1
o-Chlorotoluene	ND		ug/kg	3.6	0.34	1
p-Chlorotoluene	ND		ug/kg	3.6	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.3	1.8	1
Hexachlorobutadiene	ND		ug/kg	7.1	0.30	1
Isopropylbenzene	ND		ug/kg	1.8	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.8	0.19	1
Naphthalene	ND		ug/kg	7.1	1.2	1
Acrylonitrile	ND		ug/kg	7.1	2.0	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-06 Date Collected: 10/18/21 13:10

Client ID: EPSW16_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.8	0.30	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.6	0.57	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.6	0.48	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.6	0.34	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.6	0.59	1
1,4-Dioxane	ND		ug/kg	140	62.	1
p-Diethylbenzene	ND		ug/kg	3.6	0.32	1
p-Ethyltoluene	ND		ug/kg	3.6	0.68	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.6	0.34	1
Ethyl ether	ND		ug/kg	3.6	0.61	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	8.9	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	114		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-07
Client ID: EPSW17_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:20
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/21/21 03:46
Analyst: NLK
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	3.9	J	ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.55	0.21	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.55	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-07 Date Collected: 10/18/21 13:20

Client ID: EPSW17_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.71	1
Acrylonitrile	ND		ug/kg	4.4	1.2	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-07 Date Collected: 10/18/21 13:20

Client ID: EPSW17_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	87	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	115		70-130

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-08
Client ID: EPSW18_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:30
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/21/21 04:12
Analyst: NLK
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.51	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.96	1
Bromomethane	ND		ug/kg	2.0	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-08 Date Collected: 10/18/21 13:30

Client ID: EPSW18_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.21	1
p/m-Xylene	ND		ug/kg	2.0	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.94	1
Acetone	20		ug/kg	10	4.9	1
Carbon disulfide	5.7	J	ug/kg	10	4.7	1
2-Butanone	3.0	J	ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	0.14	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.20	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.67	1
Acrylonitrile	ND		ug/kg	4.1	1.2	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-08 Date Collected: 10/18/21 13:30

Client ID: EPSW18_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	82	36.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.20	1
Ethyl ether	ND		ug/kg	2.0	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.1	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	117		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-09
Client ID: EPSW19_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:40
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/21/21 04:38
Analyst: NLK
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	8.8	4.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.26	1
Chloroform	ND		ug/kg	2.6	0.25	1
Carbon tetrachloride	ND		ug/kg	1.8	0.40	1
1,2-Dichloropropane	ND		ug/kg	1.8	0.22	1
Dibromochloromethane	ND		ug/kg	1.8	0.25	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.47	1
Tetrachloroethene	ND		ug/kg	0.88	0.34	1
Chlorobenzene	ND		ug/kg	0.88	0.22	1
Trichlorofluoromethane	ND		ug/kg	7.0	1.2	1
1,2-Dichloroethane	ND		ug/kg	1.8	0.45	1
1,1,1-Trichloroethane	ND		ug/kg	0.88	0.29	1
Bromodichloromethane	ND		ug/kg	0.88	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.8	0.48	1
cis-1,3-Dichloropropene	ND		ug/kg	0.88	0.28	1
1,3-Dichloropropene, Total	ND		ug/kg	0.88	0.28	1
1,1-Dichloropropene	ND		ug/kg	0.88	0.28	1
Bromoform	ND		ug/kg	7.0	0.43	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.88	0.29	1
Benzene	ND		ug/kg	0.88	0.29	1
Toluene	ND		ug/kg	1.8	0.96	1
Ethylbenzene	ND		ug/kg	1.8	0.25	1
Chloromethane	ND		ug/kg	7.0	1.6	1
Bromomethane	ND		ug/kg	3.5	1.0	1
Vinyl chloride	ND		ug/kg	1.8	0.59	1
Chloroethane	ND		ug/kg	3.5	0.80	1
1,1-Dichloroethene	ND		ug/kg	1.8	0.42	1
trans-1,2-Dichloroethene	ND		ug/kg	2.6	0.24	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-09 Date Collected: 10/18/21 13:40

Client ID: EPSW19_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.88	0.24	1
1,2-Dichlorobenzene	ND		ug/kg	3.5	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	3.5	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	3.5	0.30	1
Methyl tert butyl ether	ND		ug/kg	3.5	0.35	1
p/m-Xylene	ND		ug/kg	3.5	0.99	1
o-Xylene	ND		ug/kg	1.8	0.51	1
Xylenes, Total	ND		ug/kg	1.8	0.51	1
cis-1,2-Dichloroethene	ND		ug/kg	1.8	0.31	1
1,2-Dichloroethene, Total	ND		ug/kg	1.8	0.24	1
Dibromomethane	ND		ug/kg	3.5	0.42	1
Styrene	ND		ug/kg	1.8	0.34	1
Dichlorodifluoromethane	ND		ug/kg	18	1.6	1
Acetone	ND		ug/kg	18	8.5	1
Carbon disulfide	ND		ug/kg	18	8.0	1
2-Butanone	ND		ug/kg	18	3.9	1
Vinyl acetate	ND		ug/kg	18	3.8	1
4-Methyl-2-pentanone	ND		ug/kg	18	2.2	1
1,2,3-Trichloropropane	ND		ug/kg	3.5	0.22	1
2-Hexanone	ND		ug/kg	18	2.1	1
Bromochloromethane	ND		ug/kg	3.5	0.36	1
2,2-Dichloropropane	ND		ug/kg	3.5	0.36	1
1,2-Dibromoethane	ND		ug/kg	1.8	0.49	1
1,3-Dichloropropane	ND		ug/kg	3.5	0.29	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.88	0.23	1
Bromobenzene	ND		ug/kg	3.5	0.26	1
n-Butylbenzene	ND		ug/kg	1.8	0.29	1
sec-Butylbenzene	ND		ug/kg	1.8	0.26	1
tert-Butylbenzene	ND		ug/kg	3.5	0.21	1
o-Chlorotoluene	ND		ug/kg	3.5	0.34	1
p-Chlorotoluene	ND		ug/kg	3.5	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.3	1.8	1
Hexachlorobutadiene	ND		ug/kg	7.0	0.30	1
Isopropylbenzene	ND		ug/kg	1.8	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.8	0.19	1
Naphthalene	ND		ug/kg	7.0	1.1	1
Acrylonitrile	ND		ug/kg	7.0	2.0	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-09 Date Collected: 10/18/21 13:40

Client ID: EPSW19_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.8	0.30	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.5	0.57	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.5	0.48	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.5	0.34	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.5	0.59	1
1,4-Dioxane	ND		ug/kg	140	62.	1
p-Diethylbenzene	ND		ug/kg	3.5	0.31	1
p-Ethyltoluene	ND		ug/kg	3.5	0.68	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.5	0.34	1
Ethyl ether	ND		ug/kg	3.5	0.60	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	8.8	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	114		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-10
Client ID: EP49_ -3
Sample Location: BROOKLYN, NY
Date Collected: 10/18/21 15:30
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/21/21 05:04
Analyst: NLK
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.4	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.90	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.22	1
Bromodichloromethane	ND		ug/kg	0.64	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.64	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.64	0.20	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	0.21	1
Benzene	ND		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.70	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.2	1.2	1
Bromomethane	ND		ug/kg	2.6	0.75	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.18	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-10 Date Collected: 10/18/21 15:30

Client ID: EP49_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.64	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.72	1
o-Xylene	ND		ug/kg	1.3	0.38	1
Xylenes, Total	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.31	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.2	1
Carbon disulfide	ND		ug/kg	13	5.9	1
2-Butanone	ND		ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.64	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.2	0.84	1
Acrylonitrile	ND		ug/kg	5.2	1.5	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-10 Date Collected: 10/18/21 15:30

Client ID: EP49_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
1,4-Dioxane	ND		ug/kg	100	45.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.49	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.25	1
Ethyl ether	ND		ug/kg	2.6	0.44	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	115		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-11
Client ID: EP50_ -3
Sample Location: BROOKLYN, NY
Date Collected: 10/18/21 15:40
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/21/21 05:30
Analyst: NLK
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.31	1
Tetrachloroethene	ND		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.80	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.57	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	ND		ug/kg	1.1	0.62	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.67	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-11 Date Collected: 10/18/21 15:40

Client ID: EP50_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.5	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.14	1
2-Hexanone	ND		ug/kg	11	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.57	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.6	0.75	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-11 Date Collected: 10/18/21 15:40

Client ID: EP50_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	92	40.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	115		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-12
Client ID: EP57_ -3
Sample Location: BROOKLYN, NY
Date Collected: 10/18/21 15:50
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/21/21 05:56
Analyst: NLK
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.18	1
Benzene	ND		ug/kg	0.56	0.18	1
Toluene	ND		ug/kg	1.1	0.61	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.2	0.65	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.2	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-12 Date Collected: 10/18/21 15:50

Client ID: EP57_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.63	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.5	0.73	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-12 Date Collected: 10/18/21 15:50

Client ID: EP57_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	90	39.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.43	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	117		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-13
Client ID: EP58_ -3
Sample Location: BROOKLYN, NY
Date Collected: 10/18/21 16:00
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/21/21 06:22
Analyst: NLK
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.18	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.18	1
Benzene	ND		ug/kg	0.56	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.65	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-13 Date Collected: 10/18/21 16:00

Client ID: EP58_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.72	1
Acrylonitrile	ND		ug/kg	4.4	1.3	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-13 Date Collected: 10/18/21 16:00

Client ID: EP58_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	89	39.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.43	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	116		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/20/21 21:40
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-13 Batch: WG1561346-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/20/21 21:40
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-13 Batch: WG1561346-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/20/21 21:40
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-13 Batch: WG1561346-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-13 Batch: WG1561346-3 WG1561346-4								
Methylene chloride	94		96		70-130	2		30
1,1-Dichloroethane	102		102		70-130	0		30
Chloroform	100		104		70-130	4		30
Carbon tetrachloride	109		106		70-130	3		30
1,2-Dichloropropane	99		100		70-130	1		30
Dibromochloromethane	91		96		70-130	5		30
1,1,2-Trichloroethane	96		102		70-130	6		30
Tetrachloroethene	110		108		70-130	2		30
Chlorobenzene	102		103		70-130	1		30
Trichlorofluoromethane	109		105		70-139	4		30
1,2-Dichloroethane	94		98		70-130	4		30
1,1,1-Trichloroethane	108		106		70-130	2		30
Bromodichloromethane	100		104		70-130	4		30
trans-1,3-Dichloropropene	90		97		70-130	7		30
cis-1,3-Dichloropropene	92		96		70-130	4		30
1,1-Dichloropropene	109		108		70-130	1		30
Bromoform	88		95		70-130	8		30
1,1,2,2-Tetrachloroethane	89		99		70-130	11		30
Benzene	103		102		70-130	1		30
Toluene	102		102		70-130	0		30
Ethylbenzene	106		105		70-130	1		30
Chloromethane	95		90		52-130	5		30
Bromomethane	92		86		57-147	7		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-13 Batch: WG1561346-3 WG1561346-4								
Vinyl chloride	99		94		67-130	5		30
Chloroethane	103		96		50-151	7		30
1,1-Dichloroethene	106		105		65-135	1		30
trans-1,2-Dichloroethene	104		102		70-130	2		30
Trichloroethene	106		104		70-130	2		30
1,2-Dichlorobenzene	101		102		70-130	1		30
1,3-Dichlorobenzene	104		104		70-130	0		30
1,4-Dichlorobenzene	100		100		70-130	0		30
Methyl tert butyl ether	93		101		66-130	8		30
p/m-Xylene	110		110		70-130	0		30
o-Xylene	109		110		70-130	1		30
cis-1,2-Dichloroethene	101		102		70-130	1		30
Dibromomethane	92		98		70-130	6		30
Styrene	110		112		70-130	2		30
Dichlorodifluoromethane	99		96		30-146	3		30
Acetone	100		111		54-140	10		30
Carbon disulfide	98		96		59-130	2		30
2-Butanone	80		90		70-130	12		30
Vinyl acetate	85		92		70-130	8		30
4-Methyl-2-pentanone	72		83		70-130	14		30
1,2,3-Trichloropropane	90		99		68-130	10		30
2-Hexanone	76		85		70-130	11		30
Bromochloromethane	100		101		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2156956

Report Date: 10/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-13 Batch: WG1561346-3 WG1561346-4								
2,2-Dichloropropane	108		107		70-130	1		30
1,2-Dibromoethane	89		96		70-130	8		30
1,3-Dichloropropane	96		102		69-130	6		30
1,1,1,2-Tetrachloroethane	108		110		70-130	2		30
Bromobenzene	102		104		70-130	2		30
n-Butylbenzene	110		107		70-130	3		30
sec-Butylbenzene	110		107		70-130	3		30
tert-Butylbenzene	110		108		70-130	2		30
o-Chlorotoluene	105		104		70-130	1		30
p-Chlorotoluene	105		104		70-130	1		30
1,2-Dibromo-3-chloropropane	76		88		68-130	15		30
Hexachlorobutadiene	112		109		67-130	3		30
Isopropylbenzene	111		108		70-130	3		30
p-Isopropyltoluene	113		110		70-130	3		30
Naphthalene	95		103		70-130	8		30
Acrylonitrile	81		89		70-130	9		30
n-Propylbenzene	110		107		70-130	3		30
1,2,3-Trichlorobenzene	101		105		70-130	4		30
1,2,4-Trichlorobenzene	105		106		70-130	1		30
1,3,5-Trimethylbenzene	110		108		70-130	2		30
1,2,4-Trimethylbenzene	110		109		70-130	1		30
1,4-Dioxane	68		81		65-136	17		30
p-Diethylbenzene	111		110		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-13 Batch: WG1561346-3 WG1561346-4								
p-Ethyltoluene	110		109		70-130	1		30
1,2,4,5-Tetramethylbenzene	108		107		70-130	1		30
Ethyl ether	89		92		67-130	3		30
trans-1,4-Dichloro-2-butene	87		97		70-130	11		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		97		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	99		100		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1561346-6 WG1561346-7 QC Sample: L2156956-12 Client ID: EP57_ -3												
Methylene chloride	ND	115	97	84		94	81		70-130	2		30
1,1-Dichloroethane	ND	115	120	100		110	97		70-130	3		30
Chloroform	ND	115	110	99		110	97		70-130	1		30
Carbon tetrachloride	ND	115	140	124		130	116		70-130	6		30
1,2-Dichloropropane	ND	115	110	92		100	88		70-130	4		30
Dibromochloromethane	ND	115	100	89		96	83		70-130	7		30
1,1,2-Trichloroethane	ND	115	97	84		93	80		70-130	4		30
Tetrachloroethene	ND	115	110	96		100	86		70-130	10		30
Chlorobenzene	ND	115	99	86		91	78		70-130	9		30
Trichlorofluoromethane	ND	115	150	133		150	129		70-139	3		30
1,2-Dichloroethane	ND	115	110	99		110	93		70-130	5		30
1,1,1-Trichloroethane	ND	115	140	120		130	114		70-130	5		30
Bromodichloromethane	ND	115	120	102		110	97		70-130	4		30
trans-1,3-Dichloropropene	ND	115	94	81		90	77		70-130	4		30
cis-1,3-Dichloropropene	ND	115	97	84		93	80		70-130	5		30
1,1-Dichloropropene	ND	115	120	107		120	101		70-130	5		30
Bromoform	ND	115	91	79		89	77		70-130	2		30
1,1,2,2-Tetrachloroethane	ND	115	87	75		86	74		70-130	1		30
Benzene	ND	115	110	94		100	89		70-130	5		30
Toluene	ND	115	100	88		96	83		70-130	6		30
Ethylbenzene	ND	115	100	90		94	81		70-130	11		30
Chloromethane	ND	115	120	103		120	103		52-130	1		30
Bromomethane	ND	115	98	85		100	87		57-147	3		30

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1561346-6 WG1561346-7 QC Sample: L2156956-12 Client ID: EP57_ -3												
Vinyl chloride	ND	115	110	99		120	107		67-130	8		30
Chloroethane	ND	115	110	91		110	92		50-151	2		30
1,1-Dichloroethene	ND	115	120	103		120	102		65-135	1		30
trans-1,2-Dichloroethene	ND	115	110	96		110	93		70-130	3		30
Trichloroethene	ND	115	120	100		110	93		70-130	7		30
1,2-Dichlorobenzene	ND	115	92	80		83	72		70-130	10		30
1,3-Dichlorobenzene	ND	115	89	77		80	**69**	Q	70-130	11		30
1,4-Dichlorobenzene	ND	115	85	73		76	**66**	Q	70-130	11		30
Methyl tert butyl ether	ND	115	100	87		100	86		66-130	0		30
p/m-Xylene	ND	231	210	91		190	80		70-130	12		30
o-Xylene	ND	231	210	92		190	83		70-130	10		30
cis-1,2-Dichloroethene	ND	115	110	92		100	90		70-130	2		30
Dibromomethane	ND	115	100	88		97	84		70-130	5		30
Styrene	ND	231	220	93		190	83		70-130	11		30
Dichlorodifluoromethane	ND	115	130	111		130	113		30-146	2		30
Acetone	ND	115	100	86		100	90		54-140	4		30
Carbon disulfide	ND	115	110	92		100	89		59-130	3		30
2-Butanone	ND	115	90	78		90	78		70-130	0		30
Vinyl acetate	ND	115	70	**61**	Q	55	**47**	Q	70-130	24		30
4-Methyl-2-pentanone	ND	115	74	**64**	Q	75	**64**	Q	70-130	1		30
1,2,3-Trichloropropane	ND	115	88	76		87	75		68-130	1		30
2-Hexanone	ND	115	81	70		80	**69**	Q	70-130	1		30
Bromochloromethane	ND	115	110	92		100	87		70-130	5		30

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1561346-6 WG1561346-7 QC Sample: L2156956-12 Client ID: EP57_ -3												
2,2-Dichloropropane	ND	115	130	111		120	106		70-130	4		30
1,2-Dibromoethane	ND	115	92	80		88	76		70-130	4		30
1,3-Dichloropropane	ND	115	97	84		94	81		69-130	3		30
1,1,1,2-Tetrachloroethane	ND	115	120	104		110	96		70-130	8		30
Bromobenzene	ND	115	93	81		88	76		70-130	6		30
n-Butylbenzene	ND	115	85	74		73	**63**	Q	70-130	16		30
sec-Butylbenzene	ND	115	96	83		84	72		70-130	13		30
tert-Butylbenzene	ND	115	100	88		91	78		70-130	12		30
o-Chlorotoluene	ND	115	93	80		84	72		70-130	11		30
p-Chlorotoluene	ND	115	89	77		81	**69**	Q	70-130	10		30
1,2-Dibromo-3-chloropropane	ND	115	81	70		79	68		68-130	2		30
Hexachlorobutadiene	ND	115	86	74		72	**62**	Q	67-130	17		30
Isopropylbenzene	ND	115	100	87		91	79		70-130	9		30
p-Isopropyltoluene	ND	115	94	81		82	70		70-130	14		30
Naphthalene	ND	115	92	80		86	74		70-130	7		30
Acrylonitrile	ND	115	90	78		89	77		70-130	1		30
n-Propylbenzene	ND	115	92	80		83	71		70-130	11		30
1,2,3-Trichlorobenzene	ND	115	88	76		79	**68**	Q	70-130	11		30
1,2,4-Trichlorobenzene	ND	115	84	72		74	**64**	Q	70-130	12		30
1,3,5-Trimethylbenzene	ND	115	96	83		86	74		70-130	10		30
1,2,4-Trimethylbenzene	ND	115	95	82		84	73		70-130	12		30
1,4-Dioxane	ND	5770	3600	**62**	Q	4400	76		65-136	20		30
p-Diethylbenzene	ND	115	88	76		76	**65**	Q	70-130	15		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1561346-6 WG1561346-7 QC Sample: L2156956-12 Client ID: EP57_ -3												
p-Ethyltoluene	ND	115	91	79		82	71		70-130	11		30
1,2,4,5-Tetramethylbenzene	ND	115	91	79		80	**69**	Q	70-130	13		30
Ethyl ether	ND	115	86	75		88	76		67-130	2		30
trans-1,4-Dichloro-2-butene	ND	115	88	76		87	75		70-130	1		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		108		70-130
4-Bromofluorobenzene	94		97		70-130
Dibromofluoromethane	106		104		70-130
Toluene-d8	99		100		70-130

SEMIVOLATILES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-01
Client ID: EP51_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:00
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/20/21 09:15
Analyst: CMM
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 14:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	38.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	44.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	200	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	200	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	55.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-01 Date Collected: 10/18/21 10:00

Client ID: EP51_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	37.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	ND		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	170	34.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	26.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	51.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	72.	1
2-Nitrophenol	ND		ug/kg	470	82.	1
4-Nitrophenol	ND		ug/kg	300	89.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	570	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-01 Date Collected: 10/18/21 10:00

Client ID: EP51_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	42.	1
Benzoic Acid	ND		ug/kg	710	220	1
Benzyl Alcohol	ND		ug/kg	220	67.	1
Carbazole	ND		ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	33	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	89		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	89		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-01
Client ID: EP51_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:00
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/21/21 22:15
Analyst: MP
Percent Solids: 76%

Extraction Method: ALPHA 23528
Extraction Date: 10/19/21 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.604	0.027	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.604	0.056	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.302	0.047	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.604	0.063	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.302	0.055	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.302	0.073	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.302	0.051	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.604	0.217	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.604	0.165	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.302	0.091	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.302	0.157	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.302	0.081	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.604	0.347	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.604	0.243	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.604	0.057	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.604	0.185	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.604	0.118	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.604	0.102	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.604	0.085	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.604	0.247	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.604	0.065	1
PFOA/PFOS, Total	ND		ng/g	0.302	0.051	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-01 Date Collected: 10/18/21 10:00

Client ID: EP51_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	98		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	103		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	97		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	82		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	82		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	108		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	111		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	27		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	123		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	104		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	101		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-02
Client ID: EP52_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:05
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/20/21 08:09
Analyst: CMM
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 14:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-02 Date Collected: 10/18/21 10:05

Client ID: EP52_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	110	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	440	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-02 Date Collected: 10/18/21 10:05

Client ID: EP52_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	29	8.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	67		10-136
4-Terphenyl-d14	81		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-02
Client ID: EP52_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:05
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/21/21 22:32
Analyst: MP
Percent Solids: 86%

Extraction Method: ALPHA 23528
Extraction Date: 10/19/21 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.554	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.554	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.277	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.554	0.058	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.277	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.277	0.067	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.277	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.554	0.199	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.554	0.151	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.277	0.083	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.277	0.144	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.277	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.554	0.318	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.554	0.223	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.554	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.554	0.170	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.554	0.109	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.554	0.094	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.554	0.078	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.554	0.227	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.554	0.060	1
PFOA/PFOS, Total	ND		ng/g	0.277	0.046	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-02 Date Collected: 10/18/21 10:05

Client ID: EP52_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	106		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	93		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	112		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	101		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	85		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	100		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	104		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	107		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	83		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	113		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	113		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	83		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	117		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	103		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	99		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-03
Client ID: EP59_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:10
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/20/21 08:53
Analyst: CMM
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 14:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	37.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	57.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	74.	1
Butyl benzyl phthalate	ND		ug/kg	210	54.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-03 Date Collected: 10/18/21 10:10

Client ID: EP59_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	45.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	39.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	88.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	80.	1
4-Nitrophenol	ND		ug/kg	300	87.	1
2,4-Dinitrophenol	ND		ug/kg	1000	99.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	33.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-03 Date Collected: 10/18/21 10:10

Client ID: EP59_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	41.	1
Benzoic Acid	ND		ug/kg	690	220	1
Benzyl Alcohol	ND		ug/kg	210	65.	1
Carbazole	ND		ug/kg	210	21.	1
1,4-Dioxane	ND		ug/kg	32	9.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	65		10-136
4-Terphenyl-d14	70		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-03
Client ID: EP59_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:10
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/21/21 22:48
Analyst: MP
Percent Solids: 78%

Extraction Method: ALPHA 23528
Extraction Date: 10/19/21 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.566	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.566	0.052	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.283	0.044	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.566	0.059	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.283	0.051	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.283	0.069	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.283	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.566	0.203	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.566	0.154	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.283	0.085	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.283	0.147	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.283	0.076	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.566	0.325	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.566	0.228	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.566	0.053	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.566	0.173	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.566	0.111	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.566	0.096	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.566	0.079	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.566	0.232	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.566	0.061	1
PFOA/PFOS, Total	ND		ng/g	0.283	0.047	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-03 Date Collected: 10/18/21 10:10

Client ID: EP59_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	93		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	99		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	101		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	93		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	97		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	83		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	97		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	84		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	96		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	105		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	32		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	105		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	98		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	88		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-04
Client ID: EP60_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:15
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/20/21 09:37
Analyst: CMM
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 14:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-04 Date Collected: 10/18/21 10:15

Client ID: EP60_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	32.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	ND		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	72.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	920	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-04 Date Collected: 10/18/21 10:15

Client ID: EP60_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	620	200	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	8.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	94		25-120
Phenol-d6	101		10-120
Nitrobenzene-d5	102		23-120
2-Fluorobiphenyl	94		30-120
2,4,6-Tribromophenol	94		10-136
4-Terphenyl-d14	109		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-04
Client ID: EP60_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:15
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/21/21 23:05
Analyst: MP
Percent Solids: 84%

Extraction Method: ALPHA 23528
Extraction Date: 10/19/21 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.526	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.526	0.048	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.263	0.041	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.526	0.055	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.263	0.048	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.263	0.064	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.263	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.526	0.189	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.526	0.144	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.263	0.079	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.263	0.137	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.263	0.071	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.526	0.302	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.526	0.212	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.526	0.049	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.526	0.161	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.526	0.089	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.526	0.074	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.526	0.215	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.526	0.057	1
PFOA/PFOS, Total	ND		ng/g	0.263	0.044	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-04 Date Collected: 10/18/21 10:15

Client ID: EP60_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	87		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	92		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	86		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	85		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	78		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	96		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	83		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	93		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	102		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	101		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	96		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	89		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-04
Client ID: EP60_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:15
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/24/21 19:06
Analyst: SG
Percent Solids: 84%

Extraction Method: ALPHA 23528
Extraction Date: 10/19/21 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.526	0.103	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	58		10-117

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-05
Client ID: EPSW15_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:00
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/20/21 12:30
Analyst: CMM
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 14:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	32	J	ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	220	21.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	57.	1
2,4-Dinitrotoluene	ND		ug/kg	220	43.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	900		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	74.	1
Butyl benzyl phthalate	ND		ug/kg	220	54.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	73.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-05 Date Collected: 10/18/21 13:00

Client ID: EPSW15_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	45.	1
Benzo(a)anthracene	470		ug/kg	130	24.	1
Benzo(a)pyrene	440		ug/kg	170	52.	1
Benzo(b)fluoranthene	570		ug/kg	130	36.	1
Benzo(k)fluoranthene	170		ug/kg	130	34.	1
Chrysene	440		ug/kg	130	22.	1
Acenaphthylene	40	J	ug/kg	170	33.	1
Anthracene	100	J	ug/kg	130	42.	1
Benzo(ghi)perylene	260		ug/kg	170	25.	1
Fluorene	33	J	ug/kg	220	21.	1
Phenanthrene	430		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	70	J	ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	280		ug/kg	170	30.	1
Pyrene	810		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	220	39.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	89.	1
Dibenzofuran	ND		ug/kg	220	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	22.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	71.	1
2-Nitrophenol	ND		ug/kg	460	81.	1
4-Nitrophenol	ND		ug/kg	300	88.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	220	32.	1
2-Methylphenol	ND		ug/kg	220	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-05 Date Collected: 10/18/21 13:00

Client ID: EPSW15_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	41.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	220	66.	1
Carbazole	45	J	ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	32	9.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	67		10-136
4-Terphenyl-d14	63		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-05
Client ID: EPSW15_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:00
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/21/21 23:22
Analyst: MP
Percent Solids: 76%

Extraction Method: ALPHA 23528
Extraction Date: 10/19/21 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.583	0.027	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.583	0.054	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.292	0.046	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.583	0.061	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.292	0.053	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.292	0.071	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.292	0.049	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.583	0.209	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.583	0.159	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.292	0.088	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.292	0.152	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.292	0.078	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.583	0.335	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.583	0.235	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.583	0.055	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.583	0.178	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.583	0.114	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.583	0.099	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.583	0.082	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.583	0.238	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.583	0.063	1
PFOA/PFOS, Total	ND		ng/g	0.292	0.049	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-05 Date Collected: 10/18/21 13:00

Client ID: EPSW15_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	92		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	93		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	85		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	84		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	76		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	87		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	91		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	87		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	78		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	76		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	97		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	32		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	74		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	85		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	54		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-06
Client ID: EPSW16_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:10
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/20/21 10:42
Analyst: CMM
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 14:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	29.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	43.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	400		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	200	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	200	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	55.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-06 Date Collected: 10/18/21 13:10

Client ID: EPSW16_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	230		ug/kg	130	24.	1
Benzo(a)pyrene	180		ug/kg	170	53.	1
Benzo(b)fluoranthene	210		ug/kg	130	36.	1
Benzo(k)fluoranthene	70	J	ug/kg	130	35.	1
Chrysene	200		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	34.	1
Anthracene	57	J	ug/kg	130	42.	1
Benzo(ghi)perylene	86	J	ug/kg	170	26.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	280		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	26	J	ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	87	J	ug/kg	170	30.	1
Pyrene	430		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	50.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	ND		ug/kg	220	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	72.	1
2-Nitrophenol	ND		ug/kg	470	82.	1
4-Nitrophenol	ND		ug/kg	300	89.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-06 Date Collected: 10/18/21 13:10

Client ID: EPSW16_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	42.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	220	66.	1
Carbazole	ND		ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	32	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	78		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-06
Client ID: EPSW16_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:10
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/22/21 00:30
Analyst: MP
Percent Solids: 76%

Extraction Method: ALPHA 23528
Extraction Date: 10/19/21 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.609	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.609	0.056	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.304	0.048	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.609	0.064	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.304	0.055	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.304	0.074	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.304	0.051	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.609	0.218	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.609	0.166	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.304	0.091	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.304	0.158	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.304	0.082	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.609	0.349	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.609	0.245	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.609	0.057	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.609	0.186	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.609	0.119	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.609	0.103	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.609	0.085	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.609	0.249	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.609	0.066	1
PFOA/PFOS, Total	ND		ng/g	0.304	0.051	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-06 Date Collected: 10/18/21 13:10

Client ID: EPSW16_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	95		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	99		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	104		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	93		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	103		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	99		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	84		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	104		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	96		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	95		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	108		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	109		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	18		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	111		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	100		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	95		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-07
Client ID: EPSW17_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:20
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/20/21 09:59
Analyst: CMM
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 14:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	37.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	55.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	27.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	52.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	70.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-07 Date Collected: 10/18/21 13:20

Client ID: EPSW17_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	29.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	40.	1
3-Nitroaniline	ND		ug/kg	200	39.	1
4-Nitroaniline	ND		ug/kg	200	85.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	31.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	68.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	990	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	99.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-07 Date Collected: 10/18/21 13:20

Client ID: EPSW17_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	210	1
Benzyl Alcohol	ND		ug/kg	200	63.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	31	9.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	74		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-07
Client ID: EPSW17_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:20
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/22/21 00:47
Analyst: MP
Percent Solids: 79%

Extraction Method: ALPHA 23528
Extraction Date: 10/19/21 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.579	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.579	0.053	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.290	0.045	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.579	0.061	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.290	0.052	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.290	0.070	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.290	0.049	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.579	0.208	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.579	0.158	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.290	0.087	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.290	0.151	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.290	0.078	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.579	0.332	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.579	0.233	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.579	0.054	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.579	0.177	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.579	0.114	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.579	0.098	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.579	0.081	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.579	0.237	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.579	0.063	1
PFOA/PFOS, Total	ND		ng/g	0.290	0.049	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-07 Date Collected: 10/18/21 13:20

Client ID: EPSW17_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	92		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	98		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	109		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	96		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	89		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	96		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	92		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	106		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	111		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	18		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	107		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	103		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	97		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-08
Client ID: EPSW18_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:30
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/20/21 10:20
Analyst: CMM
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 14:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	73.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-08 Date Collected: 10/18/21 13:30

Client ID: EPSW18_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	88.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	80.	1
4-Nitrophenol	ND		ug/kg	300	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-08 Date Collected: 10/18/21 13:30

Client ID: EPSW18_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	65.	1
Carbazole	ND		ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	32	9.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	79		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-08
Client ID: EPSW18_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:30
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/22/21 01:03
Analyst: MP
Percent Solids: 77%

Extraction Method: ALPHA 23528
Extraction Date: 10/19/21 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.589	0.027	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.589	0.054	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.294	0.046	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.589	0.062	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.294	0.053	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.294	0.071	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.294	0.049	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.589	0.211	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.589	0.161	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.294	0.088	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.294	0.153	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.294	0.079	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.589	0.338	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.589	0.237	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.589	0.055	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.589	0.180	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.589	0.115	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.589	0.100	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.589	0.082	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.589	0.241	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.589	0.064	1
PFOA/PFOS, Total	ND		ng/g	0.294	0.049	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-08 Date Collected: 10/18/21 13:30

Client ID: EPSW18_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	92		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	96		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	98		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	94		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	79		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	93		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	94		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	86		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	85		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	11		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	98		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	85		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-09
Client ID: EPSW19_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:40
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/20/21 07:25
Analyst: CMM
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 14:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	26.	1
Hexachlorobenzene	ND		ug/kg	140	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	40.	1
1,3-Dichlorobenzene	ND		ug/kg	220	39.	1
1,4-Dichlorobenzene	ND		ug/kg	220	39.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	60.	1
2,4-Dinitrotoluene	ND		ug/kg	220	45.	1
2,6-Dinitrotoluene	ND		ug/kg	220	39.	1
Fluoranthene	ND		ug/kg	140	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	34.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	38.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	33.	1
Hexachlorocyclopentadiene	ND		ug/kg	640	200	1
Hexachloroethane	ND		ug/kg	180	36.	1
Isophorone	ND		ug/kg	200	29.	1
Naphthalene	ND		ug/kg	220	27.	1
Nitrobenzene	ND		ug/kg	200	33.	1
NDPA/DPA	ND		ug/kg	180	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	35.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	78.	1
Butyl benzyl phthalate	ND		ug/kg	220	57.	1
Di-n-butylphthalate	ND		ug/kg	220	43.	1
Di-n-octylphthalate	ND		ug/kg	220	77.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-09 Date Collected: 10/18/21 13:40

Client ID: EPSW19_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	21.	1
Dimethyl phthalate	ND		ug/kg	220	47.	1
Benzo(a)anthracene	ND		ug/kg	140	25.	1
Benzo(a)pyrene	ND		ug/kg	180	55.	1
Benzo(b)fluoranthene	ND		ug/kg	140	38.	1
Benzo(k)fluoranthene	ND		ug/kg	140	36.	1
Chrysene	ND		ug/kg	140	23.	1
Acenaphthylene	ND		ug/kg	180	35.	1
Anthracene	ND		ug/kg	140	44.	1
Benzo(ghi)perylene	ND		ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	22.	1
Phenanthrene	ND		ug/kg	140	27.	1
Dibenzo(a,h)anthracene	ND		ug/kg	140	26.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	31.	1
Pyrene	ND		ug/kg	140	22.	1
Biphenyl	ND		ug/kg	510	52.	1
4-Chloroaniline	ND		ug/kg	220	41.	1
2-Nitroaniline	ND		ug/kg	220	43.	1
3-Nitroaniline	ND		ug/kg	220	42.	1
4-Nitroaniline	ND		ug/kg	220	93.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	270	27.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	24.	1
Acetophenone	ND		ug/kg	220	28.	1
2,4,6-Trichlorophenol	ND		ug/kg	140	43.	1
p-Chloro-m-cresol	ND		ug/kg	220	34.	1
2-Chlorophenol	ND		ug/kg	220	27.	1
2,4-Dichlorophenol	ND		ug/kg	200	36.	1
2,4-Dimethylphenol	ND		ug/kg	220	74.	1
2-Nitrophenol	ND		ug/kg	490	85.	1
4-Nitrophenol	ND		ug/kg	320	92.	1
2,4-Dinitrophenol	ND		ug/kg	1100	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	590	110	1
Pentachlorophenol	ND		ug/kg	180	50.	1
Phenol	ND		ug/kg	220	34.	1
2-Methylphenol	ND		ug/kg	220	35.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	35.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-09 Date Collected: 10/18/21 13:40

Client ID: EPSW19_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	43.	1
Benzoic Acid	ND		ug/kg	730	230	1
Benzyl Alcohol	ND		ug/kg	220	69.	1
Carbazole	ND		ug/kg	220	22.	1
1,4-Dioxane	ND		ug/kg	34	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	67		10-136
4-Terphenyl-d14	70		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-09
Client ID: EPSW19_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:40
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/22/21 01:20
Analyst: MP
Percent Solids: 74%

Extraction Method: ALPHA 23528
Extraction Date: 10/19/21 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.650	0.030	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.650	0.060	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.325	0.051	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.650	0.068	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.325	0.059	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.325	0.079	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.325	0.055	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.650	0.233	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.650	0.177	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.325	0.098	1
Perfluorooctanesulfonic Acid (PFOS)	0.182	J	ng/g	0.325	0.169	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.325	0.087	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.650	0.373	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.650	0.262	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.650	0.061	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.650	0.199	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.650	0.127	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.650	0.110	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.650	0.091	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.650	0.266	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.650	0.070	1
PFOA/PFOS, Total	0.182	J	ng/g	0.325	0.055	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-09 Date Collected: 10/18/21 13:40

Client ID: EPSW19_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	94		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	98		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	105		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	91		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	109		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	99		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	87		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	104		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	102		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	92		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	96		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	111		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	20		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	107		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	105		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	98		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-10
Client ID: EP49_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 15:30
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/20/21 08:31
Analyst: CMM
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 14:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	38.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	44.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	200	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	200	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	55.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-10 Date Collected: 10/18/21 15:30

Client ID: EP49_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	37.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	ND		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	170	34.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	26.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	51.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	72.	1
2-Nitrophenol	ND		ug/kg	470	82.	1
4-Nitrophenol	ND		ug/kg	300	89.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	570	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-10 Date Collected: 10/18/21 15:30

Client ID: EP49_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	42.	1
Benzoic Acid	ND		ug/kg	710	220	1
Benzyl Alcohol	ND		ug/kg	220	67.	1
Carbazole	ND		ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	33	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	81		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-10
Client ID: EP49_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 15:30
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/22/21 01:36
Analyst: MP
Percent Solids: 75%

Extraction Method: ALPHA 23528
Extraction Date: 10/19/21 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.649	0.030	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.649	0.060	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.324	0.051	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.649	0.068	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.324	0.059	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.324	0.079	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.324	0.054	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.649	0.233	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.649	0.177	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.324	0.097	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.324	0.169	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.324	0.087	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.649	0.373	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.649	0.262	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.649	0.061	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.649	0.199	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.649	0.127	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.649	0.110	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.649	0.091	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.649	0.265	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.649	0.070	1
PFOA/PFOS, Total	ND		ng/g	0.324	0.054	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-10 Date Collected: 10/18/21 15:30

Client ID: EP49_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	95		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	102		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	106		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	97		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	117		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	102		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	88		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	100		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	107		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	94		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	102		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	112		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	32		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	110		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	100		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	100		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-11
Client ID: EP50_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 15:40
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/20/21 07:47
Analyst: CMM
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 14:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	29.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	43.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	200	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	200	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	55.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-11 Date Collected: 10/18/21 15:40

Client ID: EP50_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	34.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	26.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	50.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	ND		ug/kg	220	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	72.	1
2-Nitrophenol	ND		ug/kg	470	82.	1
4-Nitrophenol	ND		ug/kg	300	89.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-11 Date Collected: 10/18/21 15:40

Client ID: EP50_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	42.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	220	66.	1
Carbazole	ND		ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	32	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	67		10-136
4-Terphenyl-d14	64		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-11
Client ID: EP50_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 15:40
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/22/21 01:53
Analyst: MP
Percent Solids: 76%

Extraction Method: ALPHA 23528
Extraction Date: 10/19/21 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.602	0.027	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.602	0.055	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.301	0.047	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.602	0.063	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.301	0.054	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.301	0.073	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.301	0.051	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.602	0.216	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.602	0.164	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.301	0.090	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.301	0.156	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.301	0.081	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.602	0.346	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.602	0.243	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.602	0.056	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.602	0.184	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.602	0.102	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.602	0.084	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.602	0.246	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.602	0.065	1
PFOA/PFOS, Total	ND		ng/g	0.301	0.051	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-11 Date Collected: 10/18/21 15:40

Client ID: EP50_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	79		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	83		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	83		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	76		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	76		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	85		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	79		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	67		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	78		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	81		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	78		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	67		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	57		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	85		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	46		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	65		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	36		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-11
Client ID: EP50_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 15:40
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/24/21 19:13
Analyst: SG
Percent Solids: 76%

Extraction Method: ALPHA 23528
Extraction Date: 10/19/21 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.602	0.118	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	57		10-117

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-12
Client ID: EP57_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 15:50
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/20/21 07:03
Analyst: CMM
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 14:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	220	21.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	43.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	54.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-12 Date Collected: 10/18/21 15:50

Client ID: EP57_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	45.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	220	39.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	ND		ug/kg	220	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	22.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	190	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	71.	1
2-Nitrophenol	ND		ug/kg	470	81.	1
4-Nitrophenol	ND		ug/kg	300	88.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-12 Date Collected: 10/18/21 15:50

Client ID: EP57_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	41.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	220	66.	1
Carbazole	ND		ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	32	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	73		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-12
Client ID: EP57_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 15:50
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/22/21 02:10
Analyst: MP
Percent Solids: 77%

Extraction Method: ALPHA 23528
Extraction Date: 10/19/21 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.574	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.574	0.053	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.287	0.045	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.574	0.060	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.287	0.052	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.287	0.070	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.287	0.048	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.574	0.206	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.574	0.157	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.287	0.086	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.287	0.149	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.287	0.077	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.574	0.330	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.574	0.231	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.574	0.054	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.574	0.176	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.574	0.112	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.574	0.097	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.574	0.080	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.574	0.235	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.574	0.062	1
PFOA/PFOS, Total	ND		ng/g	0.287	0.048	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-12 Date Collected: 10/18/21 15:50

Client ID: EP57_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	98		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	89		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	106		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	81		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	93		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	97		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	95		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	87		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	108		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	41		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	106		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	103		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	95		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-13
Client ID: EP58_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 16:00
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/20/21 05:58
Analyst: CMM
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 14:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	73.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-13 Date Collected: 10/18/21 16:00

Client ID: EP58_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	51.	1
Benzo(b)fluoranthene	ND		ug/kg	130	35.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	130	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	87.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	79.	1
4-Nitrophenol	ND		ug/kg	290	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-13 Date Collected: 10/18/21 16:00

Client ID: EP58_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	ND		ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	32	9.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	88		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	91		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-13
Client ID: EP58_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 16:00
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/22/21 02:59
Analyst: MP
Percent Solids: 79%

Extraction Method: ALPHA 23528
Extraction Date: 10/19/21 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.569	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.569	0.052	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.284	0.044	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.569	0.060	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.284	0.051	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.284	0.069	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.284	0.048	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.569	0.204	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.569	0.155	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.284	0.085	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.284	0.148	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.284	0.076	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.569	0.326	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.569	0.229	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.569	0.053	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.569	0.174	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.569	0.112	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.569	0.096	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.569	0.080	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.569	0.233	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.569	0.061	1
PFOA/PFOS, Total	ND		ng/g	0.284	0.048	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-13 Date Collected: 10/18/21 16:00

Client ID: EP58_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	93		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	105		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	91		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	96		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	88		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	102		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	96		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	100		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	107		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	28		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	104		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	98		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	91		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/21/21 02:42
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 10/19/21 10:15

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-13 Batch: WG1560280-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/21/21 02:42
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 10/19/21 10:15

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-13 Batch: WG1560280-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	94		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	106		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	95		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	113		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	115		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	100		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	103		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	128		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	91		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	111		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**5**	Q	10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	89		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	100		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	86		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/24/21 18:50
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 10/19/21 10:15

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-13 Batch: WG1560280-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	63		10-117

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/20/21 04:52
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/19/21 14:46

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-13 Batch: WG1560541-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/20/21 04:52
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/19/21 14:46

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-13 Batch: WG1560541-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/20/21 04:52
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/19/21 14:46

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-13 Batch: WG1560541-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	65		10-136
4-Terphenyl-d14	90		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-13 Batch: WG1560280-2								
Perfluorobutanoic Acid (PFBA)	103		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	102		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	102		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	103		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	101		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	106		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	99		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	105		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	104		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	98		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	99		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	98		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	110		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	93		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	100		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	110		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	85		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	100		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	107		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	116		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	103		-		69-133	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-13 Batch: WG1560280-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	94				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	103				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	94				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	93				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	116				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	97				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	121				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	89				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	105				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**5**	Q			10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	89				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	85				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2156956

Report Date: 10/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab	Associated sample(s): 01-13		Batch: WG1560280-2					
Perfluorooctanesulfonamide (FOSA)	117		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	66				10-117

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2156956

Report Date: 10/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 Batch: WG1560541-2 WG1560541-3								
Acenaphthene	68		74		31-137	8		50
1,2,4-Trichlorobenzene	64		70		38-107	9		50
Hexachlorobenzene	67		73		40-140	9		50
Bis(2-chloroethyl)ether	69		73		40-140	6		50
2-Chloronaphthalene	69		74		40-140	7		50
1,2-Dichlorobenzene	66		70		40-140	6		50
1,3-Dichlorobenzene	64		67		40-140	5		50
1,4-Dichlorobenzene	64		68		28-104	6		50
3,3'-Dichlorobenzidine	52		61		40-140	16		50
2,4-Dinitrotoluene	71		78		40-132	9		50
2,6-Dinitrotoluene	74		77		40-140	4		50
Fluoranthene	72		78		40-140	8		50
4-Chlorophenyl phenyl ether	67		73		40-140	9		50
4-Bromophenyl phenyl ether	68		74		40-140	8		50
Bis(2-chloroisopropyl)ether	77		81		40-140	5		50
Bis(2-chloroethoxy)methane	74		79		40-117	7		50
Hexachlorobutadiene	66		68		40-140	3		50
Hexachlorocyclopentadiene	60		62		40-140	3		50
Hexachloroethane	68		72		40-140	6		50
Isophorone	76		81		40-140	6		50
Naphthalene	69		72		40-140	4		50
Nitrobenzene	73		79		40-140	8		50
NDPA/DPA	71		77		36-157	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2156956

Report Date: 10/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 Batch: WG1560541-2 WG1560541-3								
n-Nitrosodi-n-propylamine	76		80		32-121	5		50
Bis(2-ethylhexyl)phthalate	84		90		40-140	7		50
Butyl benzyl phthalate	84		90		40-140	7		50
Di-n-butylphthalate	81		87		40-140	7		50
Di-n-octylphthalate	84		88		40-140	5		50
Diethyl phthalate	71		78		40-140	9		50
Dimethyl phthalate	74		80		40-140	8		50
Benzo(a)anthracene	70		76		40-140	8		50
Benzo(a)pyrene	66		71		40-140	7		50
Benzo(b)fluoranthene	73		80		40-140	9		50
Benzo(k)fluoranthene	68		72		40-140	6		50
Chrysene	67		73		40-140	9		50
Acenaphthylene	70		75		40-140	7		50
Anthracene	69		73		40-140	6		50
Benzo(ghi)perylene	66		73		40-140	10		50
Fluorene	70		76		40-140	8		50
Phenanthrene	69		73		40-140	6		50
Dibenzo(a,h)anthracene	72		77		40-140	7		50
Indeno(1,2,3-cd)pyrene	69		70		40-140	1		50
Pyrene	71		76		35-142	7		50
Biphenyl	69		74		37-127	7		50
4-Chloroaniline	68		72		40-140	6		50
2-Nitroaniline	76		81		47-134	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2156956

Report Date: 10/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 Batch: WG1560541-2 WG1560541-3								
3-Nitroaniline	58		65		26-129	11		50
4-Nitroaniline	67		73		41-125	9		50
Dibenzofuran	67		73		40-140	9		50
2-Methylnaphthalene	69		71		40-140	3		50
1,2,4,5-Tetrachlorobenzene	70		73		40-117	4		50
Acetophenone	71		75		14-144	5		50
2,4,6-Trichlorophenol	72		74		30-130	3		50
p-Chloro-m-cresol	76		82		26-103	8		50
2-Chlorophenol	72		78		25-102	8		50
2,4-Dichlorophenol	76		81		30-130	6		50
2,4-Dimethylphenol	78		85		30-130	9		50
2-Nitrophenol	74		77		30-130	4		50
4-Nitrophenol	70		80		11-114	13		50
2,4-Dinitrophenol	65		66		4-130	2		50
4,6-Dinitro-o-cresol	75		80		10-130	6		50
Pentachlorophenol	67		72		17-109	7		50
Phenol	77		83		26-90	8		50
2-Methylphenol	77		82		30-130.	6		50
3-Methylphenol/4-Methylphenol	80		87		30-130	8		50
2,4,5-Trichlorophenol	76		82		30-130	8		50
Benzoic Acid	20		14		10-110	35		50
Benzyl Alcohol	78		85		40-140	9		50
Carbazole	70		76		54-128	8		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 Batch: WG1560541-2 WG1560541-3								
1,4-Dioxane	44		44		40-140	0		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	71		74		25-120
Phenol-d6	75		80		10-120
Nitrobenzene-d5	72		77		23-120
2-Fluorobiphenyl	68		73		30-120
2,4,6-Tribromophenol	66		70		10-136
4-Terphenyl-d14	74		78		18-120

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-13 QC Batch ID: WG1560280-3 QC Sample: L2156604-01 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	5	5.11	102		-	-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	ND	5	5.09	102		-	-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.44	4.54	102		-	-		72-128	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	4.68	4.94	106		-	-		62-145	-		30
Perfluorohexanoic Acid (PFHxA)	ND	5	5.09	102		-	-		70-132	-		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	4.7	4.58	97		-	-		73-123	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	5	5.06	101		-	-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.57	4.82	105		-	-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	ND	5	5.01	100		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.76	4.96	104		-	-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.76	5.11	107		-	-		70-132	-		30
Perfluorononanoic Acid (PFNA)	ND	5	4.98	100		-	-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	0.175J	4.64	4.73	98		-	-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	ND	5	4.94	99		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.8	5.20	108		-	-		65-137	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	4.81	4.88	101		-	-		69-125	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5	5.10	102		-	-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	5	4.97	99		-	-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	4.82	5.34	111		-	-		59-134	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5	5.01	100		-	-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	ND	5	5.18	104		-	-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	ND	5	5.68	114		-	-		66-139	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-13 QC Batch ID: WG1560280-3 QC Sample: L2156604-01 Client ID: MS Sample												
Perfluorotetradecanoic Acid (PFTA)	ND	5	5.01	100		-	-		69-133	-		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	124				19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	107				14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	118				20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	79				34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	69				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103				61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95				75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	91				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	91				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95				78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	82				24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	91				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	95				58-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	98				79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	96				75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97				72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	101				74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2156956

Report Date: 10/25/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-13 QC Batch ID: WG1560280-5 WG1560280-6 QC Sample: L2156956-12 Client ID: EP57_ -3												
Perfluorobutanoic Acid (PFBA)	ND	5.82	5.76	99		6.27	106		71-135	8		30
Perfluoropentanoic Acid (PFPeA)	ND	5.82	5.79	100		6.18	105		69-132	7		30
Perfluorobutanesulfonic Acid (PFBS)	ND	5.17	5.04	98		5.50	105		72-128	9		30
Perfluorohexanoic Acid (PFHxA)	ND	5.82	5.84	100		6.47	109		70-132	10		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.82	5.75	99		6.14	104		71-131	7		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	5.32	5.11	96		5.66	105		67-130	10		30
Perfluorooctanoic Acid (PFOA)	ND	5.82	5.67	97		6.32	107		69-133	11		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.54	5.44	98		5.70	101		64-140	5		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.54	5.64	102		5.82	103		70-132	3		30
Perfluorononanoic Acid (PFNA)	ND	5.82	5.70	98		5.94	100		72-129	4		30
Perfluorooctanesulfonic Acid (PFOS)	ND	5.4	5.23	97		5.68	104		68-136	8		30
Perfluorodecanoic Acid (PFDA)	ND	5.82	5.66	97		5.92	100		69-133	4		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.59	5.58	100		6.69	118		65-137	18		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.82	5.58	96		5.11	86		63-144	9		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.82	5.68	98		6.14	104		64-136	8		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.61	5.97	106		6.39	112		59-134	7		30
Perfluorooctanesulfonamide (FOSA)	ND	5.82	5.89	101		6.29	106		67-137	7		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.82	5.36	92		5.72	97		61-139	6		30
Perfluorododecanoic Acid (PFDoA)	ND	5.82	5.96	102		6.68	113		69-135	11		30
Perfluorotridecanoic Acid (PFTrDA)	ND	5.82	6.32	109		6.78	115		66-139	7		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.82	5.97	103		6.40	108		69-133	7		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2156956

Report Date: 10/25/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-13 QC Batch ID: WG1560280-5 WG1560280-6 QC Sample: L2156956-12 Client ID: EP57_ -3												

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	98		101		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	95		94		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	110		114		34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	93		110		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	111		109		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101		104		75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	93		93		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	93		94		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	106		102		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	106		106		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	99		100		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	95		94		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100		100		58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	50		46		10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	105		102		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	101		98		75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	98		102		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	105		102		74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1560541-4 WG1560541-5 QC Sample: L2156956-12 Client ID: EP57_ -3												
Acenaphthene	ND	1720	1300	76		1200	70		31-137	8		50
1,2,4-Trichlorobenzene	ND	1720	1200	70		1200	70		38-107	0		50
Hexachlorobenzene	ND	1720	1300	76		1300	76		40-140	0		50
Bis(2-chloroethyl)ether	ND	1720	1300	76		1200	70		40-140	8		50
2-Chloronaphthalene	ND	1720	1300	76		1300	76		40-140	0		50
1,2-Dichlorobenzene	ND	1720	1200	70		1200	70		40-140	0		50
1,3-Dichlorobenzene	ND	1720	1200	70		1100	64		40-140	9		50
1,4-Dichlorobenzene	ND	1720	1200	70		1200	70		28-104	0		50
3,3'-Dichlorobenzidine	ND	1720	1100	64		1100	64		40-140	0		50
2,4-Dinitrotoluene	ND	1720	1300	76		1300	76		40-132	0		50
2,6-Dinitrotoluene	ND	1720	1400	82		1400	82		40-140	0		50
Fluoranthene	ND	1720	1400	82		1300	76		40-140	7		50
4-Chlorophenyl phenyl ether	ND	1720	1300	76		1200	70		40-140	8		50
4-Bromophenyl phenyl ether	ND	1720	1300	76		1300	76		40-140	0		50
Bis(2-chloroisopropyl)ether	ND	1720	1400	82		1400	82		40-140	0		50
Bis(2-chloroethoxy)methane	ND	1720	1400	82		1400	82		40-117	0		50
Hexachlorobutadiene	ND	1720	1200	70		1200	70		40-140	0		50
Hexachlorocyclopentadiene	ND	1720	1100	64		1100	64		40-140	0		50
Hexachloroethane	ND	1720	1200	70		1200	70		40-140	0		50
Isophorone	ND	1720	1500	87		1400	82		40-140	7		50
Naphthalene	ND	1720	1300	76		1200	70		40-140	8		50
Nitrobenzene	ND	1720	1400	82		1300	76		40-140	7		50
NDPA/DPA	ND	1720	1400	82		1300	76		36-157	7		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2156956

Report Date: 10/25/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1560541-4 WG1560541-5 QC Sample: L2156956-12 Client ID: EP57_ -3												
n-Nitrosodi-n-propylamine	ND	1720	1400	82		1400	82		32-121	0		50
Bis(2-ethylhexyl)phthalate	ND	1720	1600	93		1600	94		40-140	0		50
Butyl benzyl phthalate	ND	1720	1500	87		1500	88		40-140	0		50
Di-n-butylphthalate	ND	1720	1500	87		1500	88		40-140	0		50
Di-n-octylphthalate	ND	1720	1600	93		1500	88		40-140	6		50
Diethyl phthalate	ND	1720	1400	82		1300	76		40-140	7		50
Dimethyl phthalate	ND	1720	1400	82		1400	82		40-140	0		50
Benzo(a)anthracene	ND	1720	1300	76		1200	70		40-140	8		50
Benzo(a)pyrene	ND	1720	1200	70		1200	70		40-140	0		50
Benzo(b)fluoranthene	ND	1720	1400	82		1300	76		40-140	7		50
Benzo(k)fluoranthene	ND	1720	1200	70		1200	70		40-140	0		50
Chrysene	ND	1720	1200	70		1200	70		40-140	0		50
Acenaphthylene	ND	1720	1300	76		1300	76		40-140	0		50
Anthracene	ND	1720	1300	76		1200	70		40-140	8		50
Benzo(ghi)perylene	ND	1720	1300	76		1200	70		40-140	8		50
Fluorene	ND	1720	1400	82		1300	76		40-140	7		50
Phenanthrene	ND	1720	1300	76		1200	70		40-140	8		50
Dibenzo(a,h)anthracene	ND	1720	1300	76		1300	76		40-140	0		50
Indeno(1,2,3-cd)pyrene	ND	1720	1300	76		1200	70		40-140	8		50
Pyrene	ND	1720	1300	76		1300	76		35-142	0		50
Biphenyl	ND	1720	1300	76		1300	76		37-127	0		50
4-Chloroaniline	ND	1720	1300	76		1300	76		40-140	0		50
2-Nitroaniline	ND	1720	1400	82		1400	82		47-134	0		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2156956

Report Date: 10/25/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1560541-4 WG1560541-5 QC Sample: L2156956-12 Client ID: EP57_ -3												
3-Nitroaniline	ND	1720	1200	70		1200	70		26-129	0		50
4-Nitroaniline	ND	1720	1300	76		1200	70		41-125	8		50
Dibenzofuran	ND	1720	1300	76		1300	76		40-140	0		50
2-Methylnaphthalene	ND	1720	1300	76		1300	76		40-140	0		50
1,2,4,5-Tetrachlorobenzene	ND	1720	1300	76		1300	76		40-117	0		50
Acetophenone	ND	1720	1300	76		1300	76		14-144	0		50
2,4,6-Trichlorophenol	ND	1720	1300	76		1300	76		30-130	0		50
p-Chloro-m-cresol	ND	1720	1400	82		1400	82		26-103	0		50
2-Chlorophenol	ND	1720	1300	76		1300	76		25-102	0		50
2,4-Dichlorophenol	ND	1720	1400	82		1400	82		30-130	0		50
2,4-Dimethylphenol	ND	1720	1500	87		1400	82		30-130	7		50
2-Nitrophenol	ND	1720	1400	82		1300	76		30-130	7		50
4-Nitrophenol	ND	1720	1200	70		1200	70		11-114	0		50
2,4-Dinitrophenol	ND	1720	ND	**0**	Q	ND	**0**	Q	4-130	NC		50
4,6-Dinitro-o-cresol	ND	1720	760	44		780	46		10-130	3		50
Pentachlorophenol	ND	1720	1100	64		970	57		17-109	13		50
Phenol	ND	1720	1400	82		1400	82		26-90	0		50
2-Methylphenol	ND	1720	1400	82		1400	82		30-130.	0		50
3-Methylphenol/4-Methylphenol	ND	1720	1500	87		1500	88		30-130	0		50
2,4,5-Trichlorophenol	ND	1720	1400	82		1400	82		30-130	0		50
Benzoic Acid	ND	1720	ND	**0**	Q	ND	**0**	Q	10-110	NC		50
Benzyl Alcohol	ND	1720	1400	82		1400	82		40-140	0		50
Carbazole	ND	1720	1300	76		1300	76		54-128	0		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2156956

Report Date: 10/25/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1560541-4 WG1560541-5 QC Sample: L2156956-12 Client ID: EP57_ -3												
1,4-Dioxane	ND	1720	730	43		720	42		40-140	1		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	73		70		10-136
2-Fluorobiphenyl	74		73		30-120
2-Fluorophenol	76		74		25-120
4-Terphenyl-d14	75		76		18-120
Nitrobenzene-d5	80		77		23-120
Phenol-d6	80		78		10-120

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-13 QC Batch ID: WG1560280-4 QC Sample: L2156004-01 Client ID: DUP Sample						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/g	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/g	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/g	NC		30
Perfluorohexanoic Acid (PFHxA)	0.063J	0.055J	ng/g	NC		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ng/g	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/g	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/g	NC		30
Perfluorooctanoic Acid (PFOA)	0.170J	0.158J	ng/g	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/g	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/g	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonic Acid (PFOS)	0.472	0.403	ng/g	16		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/g	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/g	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/g	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/g	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/g	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/g	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-13 QC Batch ID: WG1560280-4 QC Sample: L2156004-01 Client ID: DUP Sample						
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/g	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/g	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/g	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	96		94		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100		99		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	104		105		74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	106		106		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	93		93		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92		92		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	104		109		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	99		98		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	111		109		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	98		99		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103		101		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	100		98		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	125		126		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	67		76		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	108		106		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	92		95		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	97		98		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	91		87		24-159

PCBS

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-01
Client ID: EP51_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:00
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/21 09:06
Analyst: AWS
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.0	3.73	1	A
Aroclor 1221	ND		ug/kg	42.0	4.21	1	A
Aroclor 1232	ND		ug/kg	42.0	8.90	1	A
Aroclor 1242	ND		ug/kg	42.0	5.66	1	A
Aroclor 1248	ND		ug/kg	42.0	6.30	1	A
Aroclor 1254	ND		ug/kg	42.0	4.60	1	A
Aroclor 1260	ND		ug/kg	42.0	7.76	1	A
Aroclor 1262	ND		ug/kg	42.0	5.33	1	A
Aroclor 1268	ND		ug/kg	42.0	4.35	1	A
PCBs, Total	ND		ug/kg	42.0	3.73	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-02
Client ID: EP52_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:05
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/21 09:14
Analyst: AWS
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.0	3.38	1	A
Aroclor 1221	ND		ug/kg	38.0	3.81	1	A
Aroclor 1232	ND		ug/kg	38.0	8.07	1	A
Aroclor 1242	ND		ug/kg	38.0	5.13	1	A
Aroclor 1248	ND		ug/kg	38.0	5.71	1	A
Aroclor 1254	ND		ug/kg	38.0	4.16	1	A
Aroclor 1260	ND		ug/kg	38.0	7.03	1	A
Aroclor 1262	ND		ug/kg	38.0	4.83	1	A
Aroclor 1268	ND		ug/kg	38.0	3.94	1	A
PCBs, Total	ND		ug/kg	38.0	3.38	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	92		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-03
Client ID: EP59_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:10
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/21 09:22
Analyst: AWS
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.4	3.68	1	A
Aroclor 1221	ND		ug/kg	41.4	4.15	1	A
Aroclor 1232	ND		ug/kg	41.4	8.78	1	A
Aroclor 1242	ND		ug/kg	41.4	5.58	1	A
Aroclor 1248	ND		ug/kg	41.4	6.22	1	A
Aroclor 1254	ND		ug/kg	41.4	4.53	1	A
Aroclor 1260	ND		ug/kg	41.4	7.66	1	A
Aroclor 1262	ND		ug/kg	41.4	5.26	1	A
Aroclor 1268	ND		ug/kg	41.4	4.29	1	A
PCBs, Total	ND		ug/kg	41.4	3.68	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-04
Client ID: EP60_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:15
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/21/21 09:52
Analyst: JWL
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.4	3.50	1	A
Aroclor 1221	ND		ug/kg	39.4	3.95	1	A
Aroclor 1232	ND		ug/kg	39.4	8.36	1	A
Aroclor 1242	ND		ug/kg	39.4	5.31	1	A
Aroclor 1248	ND		ug/kg	39.4	5.91	1	A
Aroclor 1254	ND		ug/kg	39.4	4.31	1	A
Aroclor 1260	ND		ug/kg	39.4	7.28	1	A
Aroclor 1262	ND		ug/kg	39.4	5.00	1	A
Aroclor 1268	ND		ug/kg	39.4	4.08	1	A
PCBs, Total	ND		ug/kg	39.4	3.50	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-05
Client ID: EPSW15_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:00
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/21 09:30
Analyst: AWS
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.6	3.70	1	A
Aroclor 1221	ND		ug/kg	41.6	4.17	1	A
Aroclor 1232	ND		ug/kg	41.6	8.83	1	A
Aroclor 1242	ND		ug/kg	41.6	5.61	1	A
Aroclor 1248	ND		ug/kg	41.6	6.24	1	A
Aroclor 1254	ND		ug/kg	41.6	4.55	1	A
Aroclor 1260	ND		ug/kg	41.6	7.69	1	A
Aroclor 1262	ND		ug/kg	41.6	5.29	1	A
Aroclor 1268	ND		ug/kg	41.6	4.31	1	A
PCBs, Total	ND		ug/kg	41.6	3.70	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	47		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-06
Client ID: EPSW16_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:10
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/21/21 10:00
Analyst: JWL
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	43.8	3.89	1	A
Aroclor 1221	ND		ug/kg	43.8	4.39	1	A
Aroclor 1232	ND		ug/kg	43.8	9.29	1	A
Aroclor 1242	ND		ug/kg	43.8	5.91	1	A
Aroclor 1248	ND		ug/kg	43.8	6.57	1	A
Aroclor 1254	ND		ug/kg	43.8	4.79	1	A
Aroclor 1260	ND		ug/kg	43.8	8.10	1	A
Aroclor 1262	ND		ug/kg	43.8	5.57	1	A
Aroclor 1268	ND		ug/kg	43.8	4.54	1	A
PCBs, Total	ND		ug/kg	43.8	3.89	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-07
Client ID: EPSW17_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:20
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/21/21 10:08
Analyst: JWL
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.1	3.74	1	A
Aroclor 1221	ND		ug/kg	42.1	4.22	1	A
Aroclor 1232	ND		ug/kg	42.1	8.92	1	A
Aroclor 1242	ND		ug/kg	42.1	5.67	1	A
Aroclor 1248	ND		ug/kg	42.1	6.31	1	A
Aroclor 1254	ND		ug/kg	42.1	4.60	1	A
Aroclor 1260	ND		ug/kg	42.1	7.78	1	A
Aroclor 1262	ND		ug/kg	42.1	5.34	1	A
Aroclor 1268	ND		ug/kg	42.1	4.36	1	A
PCBs, Total	ND		ug/kg	42.1	3.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-08
Client ID: EPSW18_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:30
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/21/21 10:16
Analyst: JWL
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.0	3.64	1	A
Aroclor 1221	ND		ug/kg	41.0	4.11	1	A
Aroclor 1232	ND		ug/kg	41.0	8.70	1	A
Aroclor 1242	ND		ug/kg	41.0	5.53	1	A
Aroclor 1248	ND		ug/kg	41.0	6.15	1	A
Aroclor 1254	ND		ug/kg	41.0	4.49	1	A
Aroclor 1260	ND		ug/kg	41.0	7.58	1	A
Aroclor 1262	ND		ug/kg	41.0	5.21	1	A
Aroclor 1268	ND		ug/kg	41.0	4.25	1	A
PCBs, Total	ND		ug/kg	41.0	3.64	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-09
Client ID: EPSW19_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:40
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/21 09:38
Analyst: AWS
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	43.8	3.89	1	A
Aroclor 1221	ND		ug/kg	43.8	4.39	1	A
Aroclor 1232	ND		ug/kg	43.8	9.28	1	A
Aroclor 1242	ND		ug/kg	43.8	5.90	1	A
Aroclor 1248	ND		ug/kg	43.8	6.57	1	A
Aroclor 1254	ND		ug/kg	43.8	4.79	1	A
Aroclor 1260	ND		ug/kg	43.8	8.09	1	A
Aroclor 1262	ND		ug/kg	43.8	5.56	1	A
Aroclor 1268	ND		ug/kg	43.8	4.54	1	A
PCBs, Total	ND		ug/kg	43.8	3.89	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-10
Client ID: EP49_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 15:30
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/21 09:46
Analyst: AWS
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	43.1	3.82	1	A
Aroclor 1221	ND		ug/kg	43.1	4.32	1	A
Aroclor 1232	ND		ug/kg	43.1	9.13	1	A
Aroclor 1242	ND		ug/kg	43.1	5.81	1	A
Aroclor 1248	ND		ug/kg	43.1	6.46	1	A
Aroclor 1254	ND		ug/kg	43.1	4.71	1	A
Aroclor 1260	ND		ug/kg	43.1	7.96	1	A
Aroclor 1262	ND		ug/kg	43.1	5.47	1	A
Aroclor 1268	8.41	J	ug/kg	43.1	4.46	1	A
PCBs, Total	8.41	J	ug/kg	43.1	3.82	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-11
Client ID: EP50_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 15:40
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/21 09:54
Analyst: AWS
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.9	3.72	1	A
Aroclor 1221	ND		ug/kg	41.9	4.20	1	A
Aroclor 1232	ND		ug/kg	41.9	8.89	1	A
Aroclor 1242	ND		ug/kg	41.9	5.65	1	A
Aroclor 1248	ND		ug/kg	41.9	6.29	1	A
Aroclor 1254	ND		ug/kg	41.9	4.59	1	A
Aroclor 1260	ND		ug/kg	41.9	7.75	1	A
Aroclor 1262	ND		ug/kg	41.9	5.32	1	A
Aroclor 1268	ND		ug/kg	41.9	4.34	1	A
PCBs, Total	ND		ug/kg	41.9	3.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-12
Client ID: EP57_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 15:50
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/21 08:42
Analyst: AWS
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	43.1	3.83	1	A
Aroclor 1221	ND		ug/kg	43.1	4.32	1	A
Aroclor 1232	ND		ug/kg	43.1	9.14	1	A
Aroclor 1242	ND		ug/kg	43.1	5.81	1	A
Aroclor 1248	ND		ug/kg	43.1	6.47	1	A
Aroclor 1254	ND		ug/kg	43.1	4.72	1	A
Aroclor 1260	ND		ug/kg	43.1	7.97	1	A
Aroclor 1262	ND		ug/kg	43.1	5.48	1	A
Aroclor 1268	ND		ug/kg	43.1	4.47	1	A
PCBs, Total	ND		ug/kg	43.1	3.83	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-13
Client ID: EP58_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 16:00
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/21 10:02
Analyst: AWS
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.2	3.66	1	A
Aroclor 1221	ND		ug/kg	41.2	4.13	1	A
Aroclor 1232	ND		ug/kg	41.2	8.74	1	A
Aroclor 1242	ND		ug/kg	41.2	5.56	1	A
Aroclor 1248	ND		ug/kg	41.2	6.18	1	A
Aroclor 1254	ND		ug/kg	41.2	4.51	1	A
Aroclor 1260	ND		ug/kg	41.2	7.62	1	A
Aroclor 1262	ND		ug/kg	41.2	5.24	1	A
Aroclor 1268	ND		ug/kg	41.2	4.27	1	A
PCBs, Total	ND		ug/kg	41.2	3.66	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	93		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/20/21 08:19
Analyst: AD

Extraction Method: EPA 3546
Extraction Date: 10/19/21 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-13 Batch: WG1560403-1						
Aroclor 1016	ND		ug/kg	32.8	2.92	A
Aroclor 1221	ND		ug/kg	32.8	3.29	A
Aroclor 1232	ND		ug/kg	32.8	6.96	A
Aroclor 1242	ND		ug/kg	32.8	4.42	A
Aroclor 1248	ND		ug/kg	32.8	4.92	A
Aroclor 1254	ND		ug/kg	32.8	3.59	A
Aroclor 1260	ND		ug/kg	32.8	6.07	A
Aroclor 1262	ND		ug/kg	32.8	4.17	A
Aroclor 1268	ND		ug/kg	32.8	3.40	A
PCBs, Total	ND		ug/kg	32.8	2.92	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	99		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	104		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2156956

Report Date: 10/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-13 Batch: WG1560403-2 WG1560403-3									
Aroclor 1016	73		66		40-140	10		50	A
Aroclor 1260	84		73		40-140	14		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		53		30-150	A
Decachlorobiphenyl	87		83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		52		30-150	B
Decachlorobiphenyl	88		77		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2156956

Report Date: 10/25/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1560403-4 WG1560403-5 QC Sample: L2156956-12 Client ID: EP57_ -3													
Aroclor 1016	ND	268	190	71		188	73		40-140	1		50	A
Aroclor 1260	ND	268	222	83		217	84		40-140	2		50	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		59		30-150	A
Decachlorobiphenyl	88		89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		60		30-150	B
Decachlorobiphenyl	90		86		30-150	B

PESTICIDES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-01
Client ID: EP51_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:00
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/20/21 13:01
Analyst: JAW
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 12:09
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.09	0.409	1	A
Lindane	ND		ug/kg	0.870	0.389	1	A
Alpha-BHC	ND		ug/kg	0.870	0.247	1	A
Beta-BHC	ND		ug/kg	2.09	0.791	1	A
Heptachlor	ND		ug/kg	1.04	0.468	1	A
Aldrin	ND		ug/kg	2.09	0.735	1	A
Heptachlor epoxide	ND		ug/kg	3.91	1.17	1	A
Endrin	ND		ug/kg	0.870	0.356	1	A
Endrin aldehyde	ND		ug/kg	2.61	0.913	1	A
Endrin ketone	ND		ug/kg	2.09	0.537	1	A
Dieldrin	ND		ug/kg	1.30	0.652	1	A
4,4'-DDE	ND		ug/kg	2.09	0.483	1	A
4,4'-DDD	ND		ug/kg	2.09	0.744	1	A
4,4'-DDT	ND		ug/kg	3.91	1.68	1	A
Endosulfan I	ND		ug/kg	2.09	0.493	1	A
Endosulfan II	ND		ug/kg	2.09	0.697	1	A
Endosulfan sulfate	ND		ug/kg	0.870	0.414	1	A
Methoxychlor	ND		ug/kg	3.91	1.22	1	A
Toxaphene	ND		ug/kg	39.1	11.0	1	A
cis-Chlordane	ND		ug/kg	2.61	0.727	1	A
trans-Chlordane	ND		ug/kg	2.61	0.689	1	A
Chlordane	ND		ug/kg	17.4	6.91	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-01 Date Collected: 10/18/21 10:00

Client ID: EP51_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	100		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2156956
Project Number: 170599501
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-01
Client ID: EP51_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:00
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/20/21 21:06
Analyst: AR
Percent Solids: 76%
Methylation Date: 10/20/21 12:46

Extraction Method: EPA 8151A
Extraction Date: 10/19/21 12:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	215	13.5	1	A
2,4,5-T	ND		ug/kg	215	6.66	1	A
2,4,5-TP (Silvex)	ND		ug/kg	215	5.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	78		30-150	A
DCAA	73		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-02
Client ID: EP52_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:05
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/20/21 13:12
Analyst: JAW
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 12:09
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.79	0.350	1	A
Lindane	ND		ug/kg	0.745	0.333	1	A
Alpha-BHC	ND		ug/kg	0.745	0.212	1	A
Beta-BHC	ND		ug/kg	1.79	0.678	1	A
Heptachlor	ND		ug/kg	0.894	0.401	1	A
Aldrin	ND		ug/kg	1.79	0.630	1	A
Heptachlor epoxide	ND		ug/kg	3.35	1.01	1	A
Endrin	ND		ug/kg	0.745	0.306	1	A
Endrin aldehyde	ND		ug/kg	2.24	0.783	1	A
Endrin ketone	ND		ug/kg	1.79	0.461	1	A
Dieldrin	ND		ug/kg	1.12	0.559	1	A
4,4'-DDE	ND		ug/kg	1.79	0.414	1	A
4,4'-DDD	ND		ug/kg	1.79	0.638	1	A
4,4'-DDT	ND		ug/kg	3.35	1.44	1	A
Endosulfan I	ND		ug/kg	1.79	0.423	1	A
Endosulfan II	ND		ug/kg	1.79	0.598	1	A
Endosulfan sulfate	ND		ug/kg	0.745	0.355	1	A
Methoxychlor	ND		ug/kg	3.35	1.04	1	A
Toxaphene	ND		ug/kg	33.5	9.39	1	A
cis-Chlordane	ND		ug/kg	2.24	0.623	1	A
trans-Chlordane	ND		ug/kg	2.24	0.590	1	A
Chlordane	ND		ug/kg	14.9	5.93	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-02 Date Collected: 10/18/21 10:05

Client ID: EP52_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-02
Client ID: EP52_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:05
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/20/21 21:24
Analyst: AR
Percent Solids: 86%
Methylation Date: 10/20/21 12:46

Extraction Method: EPA 8151A
Extraction Date: 10/19/21 12:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	194	12.2	1	A
2,4,5-T	ND		ug/kg	194	6.02	1	A
2,4,5-TP (Silvex)	ND		ug/kg	194	5.17	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	71		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-03
Client ID: EP59_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:10
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/20/21 13:24
Analyst: JAW
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 12:09
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.00	0.392	1	A
Lindane	ND		ug/kg	0.834	0.373	1	A
Alpha-BHC	ND		ug/kg	0.834	0.237	1	A
Beta-BHC	ND		ug/kg	2.00	0.758	1	A
Heptachlor	ND		ug/kg	1.00	0.448	1	A
Aldrin	ND		ug/kg	2.00	0.704	1	A
Heptachlor epoxide	ND		ug/kg	3.75	1.12	1	A
Endrin	ND		ug/kg	0.834	0.342	1	A
Endrin aldehyde	ND		ug/kg	2.50	0.875	1	A
Endrin ketone	ND		ug/kg	2.00	0.515	1	A
Dieldrin	ND		ug/kg	1.25	0.625	1	A
4,4'-DDE	ND		ug/kg	2.00	0.463	1	A
4,4'-DDD	ND		ug/kg	2.00	0.714	1	A
4,4'-DDT	ND		ug/kg	3.75	1.61	1	A
Endosulfan I	ND		ug/kg	2.00	0.473	1	A
Endosulfan II	ND		ug/kg	2.00	0.668	1	A
Endosulfan sulfate	ND		ug/kg	0.834	0.397	1	A
Methoxychlor	ND		ug/kg	3.75	1.17	1	A
Toxaphene	ND		ug/kg	37.5	10.5	1	A
cis-Chlordane	ND		ug/kg	2.50	0.697	1	A
trans-Chlordane	ND		ug/kg	2.50	0.660	1	A
Chlordane	ND		ug/kg	16.7	6.63	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-03 Date Collected: 10/18/21 10:10

Client ID: EP59_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2156956
Project Number: 170599501
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-03
Client ID: EP59_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:10
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/20/21 21:43
Analyst: AR
Percent Solids: 78%
Methylation Date: 10/20/21 12:46

Extraction Method: EPA 8151A
Extraction Date: 10/19/21 12:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	208	13.1	1	A
2,4,5-T	ND		ug/kg	208	6.46	1	A
2,4,5-TP (Silvex)	ND		ug/kg	208	5.54	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	95		30-150	A
DCAA	84		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-04
Client ID: EP60_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:15
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/20/21 13:35
Analyst: JAW
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 12:09
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.81	0.355	1	A
Lindane	ND		ug/kg	0.755	0.338	1	A
Alpha-BHC	ND		ug/kg	0.755	0.214	1	A
Beta-BHC	ND		ug/kg	1.81	0.687	1	A
Heptachlor	ND		ug/kg	0.906	0.406	1	A
Aldrin	ND		ug/kg	1.81	0.638	1	A
Heptachlor epoxide	ND		ug/kg	3.40	1.02	1	A
Endrin	ND		ug/kg	0.755	0.310	1	A
Endrin aldehyde	ND		ug/kg	2.26	0.793	1	A
Endrin ketone	ND		ug/kg	1.81	0.467	1	A
Dieldrin	ND		ug/kg	1.13	0.566	1	A
4,4'-DDE	ND		ug/kg	1.81	0.419	1	A
4,4'-DDD	ND		ug/kg	1.81	0.646	1	A
4,4'-DDT	ND		ug/kg	3.40	1.46	1	A
Endosulfan I	ND		ug/kg	1.81	0.428	1	A
Endosulfan II	ND		ug/kg	1.81	0.606	1	A
Endosulfan sulfate	ND		ug/kg	0.755	0.360	1	A
Methoxychlor	ND		ug/kg	3.40	1.06	1	A
Toxaphene	ND		ug/kg	34.0	9.52	1	A
cis-Chlordane	ND		ug/kg	2.26	0.631	1	A
trans-Chlordane	ND		ug/kg	2.26	0.598	1	A
Chlordane	ND		ug/kg	15.1	6.00	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-04 Date Collected: 10/18/21 10:15

Client ID: EP60_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	103		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2156956
Project Number: 170599501
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-04
Client ID: EP60_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:15
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/20/21 22:02
Analyst: AR
Percent Solids: 84%
Methylation Date: 10/20/21 12:46

Extraction Method: EPA 8151A
Extraction Date: 10/19/21 12:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	196	12.4	1	A
2,4,5-T	ND		ug/kg	196	6.08	1	A
2,4,5-TP (Silvex)	ND		ug/kg	196	5.22	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	86		30-150	A
DCAA	76		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-05
Client ID: EPSW15_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:00
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/20/21 13:46
Analyst: JAW
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 12:09
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.06	0.404	1	A
Lindane	ND		ug/kg	0.860	0.385	1	A
Alpha-BHC	ND		ug/kg	0.860	0.244	1	A
Beta-BHC	ND		ug/kg	2.06	0.783	1	A
Heptachlor	ND		ug/kg	1.03	0.463	1	A
Aldrin	ND		ug/kg	2.06	0.727	1	A
Heptachlor epoxide	ND		ug/kg	3.87	1.16	1	A
Endrin	ND		ug/kg	0.860	0.353	1	A
Endrin aldehyde	ND		ug/kg	2.58	0.904	1	A
Endrin ketone	ND		ug/kg	2.06	0.532	1	A
Dieldrin	ND		ug/kg	1.29	0.645	1	A
4,4'-DDE	2.95		ug/kg	2.06	0.478	1	A
4,4'-DDD	ND		ug/kg	2.06	0.737	1	A
4,4'-DDT	2.00	J	ug/kg	3.87	1.66	1	B
Endosulfan I	ND		ug/kg	2.06	0.488	1	A
Endosulfan II	ND		ug/kg	2.06	0.690	1	A
Endosulfan sulfate	ND		ug/kg	0.860	0.410	1	A
Methoxychlor	ND		ug/kg	3.87	1.20	1	A
Toxaphene	ND		ug/kg	38.7	10.8	1	A
cis-Chlordane	ND		ug/kg	2.58	0.719	1	A
trans-Chlordane	ND		ug/kg	2.58	0.682	1	A
Chlordane	ND		ug/kg	17.2	6.84	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-05 Date Collected: 10/18/21 13:00

Client ID: EPSW15_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-05
Client ID: EPSW15_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:00
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/20/21 22:20
Analyst: AR
Percent Solids: 76%
Methylation Date: 10/20/21 12:46

Extraction Method: EPA 8151A
Extraction Date: 10/19/21 12:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	212	13.3	1	A
2,4,5-T	ND		ug/kg	212	6.57	1	A
2,4,5-TP (Silvex)	ND		ug/kg	212	5.64	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	87		30-150	A
DCAA	79		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-06
Client ID: EPSW16_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:10
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/20/21 13:57
Analyst: JAW
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 12:09
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.02	0.396	1	A
Lindane	ND		ug/kg	0.843	0.377	1	A
Alpha-BHC	ND		ug/kg	0.843	0.239	1	A
Beta-BHC	ND		ug/kg	2.02	0.767	1	A
Heptachlor	ND		ug/kg	1.01	0.454	1	A
Aldrin	ND		ug/kg	2.02	0.712	1	A
Heptachlor epoxide	ND		ug/kg	3.79	1.14	1	A
Endrin	ND		ug/kg	0.843	0.346	1	A
Endrin aldehyde	ND		ug/kg	2.53	0.885	1	A
Endrin ketone	ND		ug/kg	2.02	0.521	1	A
Dieldrin	ND		ug/kg	1.26	0.632	1	A
4,4'-DDE	ND		ug/kg	2.02	0.468	1	A
4,4'-DDD	ND		ug/kg	2.02	0.722	1	A
4,4'-DDT	ND		ug/kg	3.79	1.63	1	A
Endosulfan I	ND		ug/kg	2.02	0.478	1	A
Endosulfan II	ND		ug/kg	2.02	0.676	1	A
Endosulfan sulfate	ND		ug/kg	0.843	0.401	1	A
Methoxychlor	ND		ug/kg	3.79	1.18	1	A
Toxaphene	ND		ug/kg	37.9	10.6	1	A
cis-Chlordane	ND		ug/kg	2.53	0.705	1	A
trans-Chlordane	ND		ug/kg	2.53	0.668	1	A
Chlordane	ND		ug/kg	16.9	6.70	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-06 Date Collected: 10/18/21 13:10

Client ID: EPSW16_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	101		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	93		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2156956
Project Number: 170599501
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-06
Client ID: EPSW16_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:10
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/20/21 22:39
Analyst: AR
Percent Solids: 76%
Methylation Date: 10/20/21 12:46

Extraction Method: EPA 8151A
Extraction Date: 10/19/21 12:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	217	13.7	1	A
2,4,5-T	ND		ug/kg	217	6.74	1	A
2,4,5-TP (Silvex)	ND		ug/kg	217	5.78	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	87		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-07
Client ID: EPSW17_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:20
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/20/21 14:08
Analyst: JAW
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 12:09
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.02	0.395	1	A
Lindane	ND		ug/kg	0.840	0.375	1	A
Alpha-BHC	ND		ug/kg	0.840	0.238	1	A
Beta-BHC	ND		ug/kg	2.02	0.764	1	A
Heptachlor	ND		ug/kg	1.01	0.452	1	A
Aldrin	ND		ug/kg	2.02	0.710	1	A
Heptachlor epoxide	ND		ug/kg	3.78	1.13	1	A
Endrin	ND		ug/kg	0.840	0.344	1	A
Endrin aldehyde	ND		ug/kg	2.52	0.882	1	A
Endrin ketone	ND		ug/kg	2.02	0.519	1	A
Dieldrin	ND		ug/kg	1.26	0.630	1	A
4,4'-DDE	ND		ug/kg	2.02	0.466	1	A
4,4'-DDD	ND		ug/kg	2.02	0.719	1	A
4,4'-DDT	ND		ug/kg	3.78	1.62	1	A
Endosulfan I	ND		ug/kg	2.02	0.476	1	A
Endosulfan II	ND		ug/kg	2.02	0.674	1	A
Endosulfan sulfate	ND		ug/kg	0.840	0.400	1	A
Methoxychlor	ND		ug/kg	3.78	1.18	1	A
Toxaphene	ND		ug/kg	37.8	10.6	1	A
cis-Chlordane	ND		ug/kg	2.52	0.702	1	A
trans-Chlordane	ND		ug/kg	2.52	0.665	1	A
Chlordane	ND		ug/kg	16.8	6.68	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-07 Date Collected: 10/18/21 13:20

Client ID: EPSW17_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	108		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-07
Client ID: EPSW17_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:20
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/20/21 23:16
Analyst: AR
Percent Solids: 79%
Methylation Date: 10/20/21 12:46

Extraction Method: EPA 8151A
Extraction Date: 10/19/21 12:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	204	12.9	1	A
2,4,5-T	ND		ug/kg	204	6.34	1	A
2,4,5-TP (Silvex)	ND		ug/kg	204	5.44	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	75		30-150	A
DCAA	68		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-08
Client ID: EPSW18_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:30
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/20/21 14:20
Analyst: JAW
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 12:09
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.07	0.405	1	A
Lindane	ND		ug/kg	0.862	0.385	1	A
Alpha-BHC	ND		ug/kg	0.862	0.245	1	A
Beta-BHC	ND		ug/kg	2.07	0.784	1	A
Heptachlor	ND		ug/kg	1.03	0.464	1	A
Aldrin	ND		ug/kg	2.07	0.728	1	A
Heptachlor epoxide	ND		ug/kg	3.88	1.16	1	A
Endrin	ND		ug/kg	0.862	0.353	1	A
Endrin aldehyde	ND		ug/kg	2.58	0.905	1	A
Endrin ketone	ND		ug/kg	2.07	0.532	1	A
Dieldrin	ND		ug/kg	1.29	0.646	1	A
4,4'-DDE	ND		ug/kg	2.07	0.478	1	A
4,4'-DDD	ND		ug/kg	2.07	0.738	1	A
4,4'-DDT	ND		ug/kg	3.88	1.66	1	A
Endosulfan I	ND		ug/kg	2.07	0.489	1	A
Endosulfan II	ND		ug/kg	2.07	0.691	1	A
Endosulfan sulfate	ND		ug/kg	0.862	0.410	1	A
Methoxychlor	ND		ug/kg	3.88	1.21	1	A
Toxaphene	ND		ug/kg	38.8	10.8	1	A
cis-Chlordane	ND		ug/kg	2.58	0.720	1	A
trans-Chlordane	ND		ug/kg	2.58	0.682	1	A
Chlordane	ND		ug/kg	17.2	6.85	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-08 Date Collected: 10/18/21 13:30

Client ID: EPSW18_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	93		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2156956
Project Number: 170599501
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-08
Client ID: EPSW18_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:30
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/20/21 23:34
Analyst: AR
Percent Solids: 77%
Methylation Date: 10/20/21 12:46

Extraction Method: EPA 8151A
Extraction Date: 10/19/21 12:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	212	13.4	1	A
2,4,5-T	ND		ug/kg	212	6.58	1	A
2,4,5-TP (Silvex)	ND		ug/kg	212	5.65	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	78		30-150	A
DCAA	74		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-09
Client ID: EPSW19_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:40
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/20/21 14:31
Analyst: JAW
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 12:09
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.04	0.400	1	A
Lindane	ND		ug/kg	0.851	0.380	1	A
Alpha-BHC	ND		ug/kg	0.851	0.242	1	A
Beta-BHC	ND		ug/kg	2.04	0.775	1	A
Heptachlor	ND		ug/kg	1.02	0.458	1	A
Aldrin	ND		ug/kg	2.04	0.719	1	A
Heptachlor epoxide	ND		ug/kg	3.83	1.15	1	A
Endrin	ND		ug/kg	0.851	0.349	1	A
Endrin aldehyde	ND		ug/kg	2.55	0.894	1	A
Endrin ketone	ND		ug/kg	2.04	0.526	1	A
Dieldrin	ND		ug/kg	1.28	0.638	1	A
4,4'-DDE	ND		ug/kg	2.04	0.472	1	A
4,4'-DDD	ND		ug/kg	2.04	0.729	1	A
4,4'-DDT	ND		ug/kg	3.83	1.64	1	A
Endosulfan I	ND		ug/kg	2.04	0.483	1	A
Endosulfan II	ND		ug/kg	2.04	0.683	1	A
Endosulfan sulfate	ND		ug/kg	0.851	0.405	1	A
Methoxychlor	ND		ug/kg	3.83	1.19	1	A
Toxaphene	ND		ug/kg	38.3	10.7	1	A
cis-Chlordane	ND		ug/kg	2.55	0.712	1	A
trans-Chlordane	ND		ug/kg	2.55	0.674	1	A
Chlordane	ND		ug/kg	17.0	6.77	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-09 Date Collected: 10/18/21 13:40

Client ID: EPSW19_ -5 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	111		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2156956
Project Number: 170599501
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-09
Client ID: EPSW19_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:40
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/20/21 23:53
Analyst: AR
Percent Solids: 74%
Methylation Date: 10/20/21 12:46

Extraction Method: EPA 8151A
Extraction Date: 10/19/21 12:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	223	14.1	1	A
2,4,5-T	ND		ug/kg	223	6.92	1	A
2,4,5-TP (Silvex)	ND		ug/kg	223	5.94	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	79		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-10
Client ID: EP49_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 15:30
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/20/21 14:42
Analyst: JAW
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 12:09
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.14	0.419	1	A
Lindane	ND		ug/kg	0.891	0.398	1	A
Alpha-BHC	ND		ug/kg	0.891	0.253	1	A
Beta-BHC	ND		ug/kg	2.14	0.810	1	A
Heptachlor	ND		ug/kg	1.07	0.479	1	A
Aldrin	ND		ug/kg	2.14	0.753	1	A
Heptachlor epoxide	ND		ug/kg	4.01	1.20	1	A
Endrin	ND		ug/kg	0.891	0.365	1	A
Endrin aldehyde	ND		ug/kg	2.67	0.935	1	A
Endrin ketone	ND		ug/kg	2.14	0.550	1	A
Dieldrin	ND		ug/kg	1.34	0.668	1	A
4,4'-DDE	ND		ug/kg	2.14	0.494	1	A
4,4'-DDD	ND		ug/kg	2.14	0.762	1	A
4,4'-DDT	ND		ug/kg	4.01	1.72	1	A
Endosulfan I	ND		ug/kg	2.14	0.505	1	A
Endosulfan II	ND		ug/kg	2.14	0.714	1	A
Endosulfan sulfate	ND		ug/kg	0.891	0.424	1	A
Methoxychlor	ND		ug/kg	4.01	1.25	1	A
Toxaphene	ND		ug/kg	40.1	11.2	1	A
cis-Chlordane	ND		ug/kg	2.67	0.745	1	A
trans-Chlordane	ND		ug/kg	2.67	0.705	1	A
Chlordane	ND		ug/kg	17.8	7.08	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-10 Date Collected: 10/18/21 15:30

Client ID: EP49_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	120		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	94		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2156956
Project Number: 170599501
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-10
Client ID: EP49_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 15:30
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/21/21 00:11
Analyst: AR
Percent Solids: 75%
Methylation Date: 10/20/21 12:46

Extraction Method: EPA 8151A
Extraction Date: 10/19/21 13:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	219	13.8	1	A
2,4,5-T	ND		ug/kg	219	6.80	1	A
2,4,5-TP (Silvex)	ND		ug/kg	219	5.83	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	72		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-11
Client ID: EP50_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 15:40
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/20/21 14:53
Analyst: JAW
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 12:16
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.06	0.403	1	A
Lindane	ND		ug/kg	0.857	0.383	1	A
Alpha-BHC	ND		ug/kg	0.857	0.243	1	A
Beta-BHC	ND		ug/kg	2.06	0.780	1	A
Heptachlor	ND		ug/kg	1.03	0.461	1	A
Aldrin	ND		ug/kg	2.06	0.724	1	A
Heptachlor epoxide	ND		ug/kg	3.85	1.16	1	A
Endrin	ND		ug/kg	0.857	0.351	1	A
Endrin aldehyde	ND		ug/kg	2.57	0.899	1	A
Endrin ketone	ND		ug/kg	2.06	0.529	1	A
Dieldrin	ND		ug/kg	1.28	0.642	1	A
4,4'-DDE	ND		ug/kg	2.06	0.475	1	A
4,4'-DDD	ND		ug/kg	2.06	0.733	1	A
4,4'-DDT	ND		ug/kg	3.85	1.65	1	A
Endosulfan I	ND		ug/kg	2.06	0.486	1	A
Endosulfan II	ND		ug/kg	2.06	0.687	1	A
Endosulfan sulfate	ND		ug/kg	0.857	0.408	1	A
Methoxychlor	ND		ug/kg	3.85	1.20	1	A
Toxaphene	ND		ug/kg	38.5	10.8	1	A
cis-Chlordane	ND		ug/kg	2.57	0.716	1	A
trans-Chlordane	ND		ug/kg	2.57	0.678	1	A
Chlordane	ND		ug/kg	17.1	6.81	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-11 Date Collected: 10/18/21 15:40

Client ID: EP50_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	104		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2156956
Project Number: 170599501
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-11
Client ID: EP50_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 15:40
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/21/21 00:30
Analyst: AR
Percent Solids: 76%
Methylation Date: 10/20/21 12:46

Extraction Method: EPA 8151A
Extraction Date: 10/19/21 13:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	214	13.5	1	A
2,4,5-T	ND		ug/kg	214	6.64	1	A
2,4,5-TP (Silvex)	ND		ug/kg	214	5.70	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	81		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-12
Client ID: EP57_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 15:50
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/20/21 12:28
Analyst: JAW
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 12:16
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.98	0.388	1	A
Lindane	ND		ug/kg	0.826	0.369	1	A
Alpha-BHC	ND		ug/kg	0.826	0.235	1	A
Beta-BHC	ND		ug/kg	1.98	0.752	1	A
Heptachlor	ND		ug/kg	0.991	0.444	1	A
Aldrin	ND		ug/kg	1.98	0.698	1	A
Heptachlor epoxide	ND		ug/kg	3.72	1.12	1	A
Endrin	ND		ug/kg	0.826	0.339	1	A
Endrin aldehyde	ND		ug/kg	2.48	0.868	1	A
Endrin ketone	ND		ug/kg	1.98	0.511	1	A
Dieldrin	ND		ug/kg	1.24	0.620	1	A
4,4'-DDE	ND		ug/kg	1.98	0.458	1	A
4,4'-DDD	ND		ug/kg	1.98	0.707	1	A
4,4'-DDT	ND		ug/kg	3.72	1.59	1	A
Endosulfan I	ND		ug/kg	1.98	0.468	1	A
Endosulfan II	ND		ug/kg	1.98	0.663	1	A
Endosulfan sulfate	ND		ug/kg	0.826	0.393	1	A
Methoxychlor	ND		ug/kg	3.72	1.16	1	A
Toxaphene	ND		ug/kg	37.2	10.4	1	A
cis-Chlordane	ND		ug/kg	2.48	0.691	1	A
trans-Chlordane	ND		ug/kg	2.48	0.654	1	A
Chlordane	ND		ug/kg	16.5	6.57	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-12 Date Collected: 10/18/21 15:50

Client ID: EP57_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-12
Client ID: EP57_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 15:50
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/21/21 00:48
Analyst: AR
Percent Solids: 77%
Methylation Date: 10/20/21 12:46

Extraction Method: EPA 8151A
Extraction Date: 10/19/21 13:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	215	13.6	1	A
2,4,5-T	ND		ug/kg	215	6.67	1	A
2,4,5-TP (Silvex)	ND		ug/kg	215	5.73	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	86		30-150	A
DCAA	71		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-13
Client ID: EP58_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 16:00
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/20/21 15:04
Analyst: JAW
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/19/21 12:16
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.00	0.391	1	A
Lindane	ND		ug/kg	0.832	0.372	1	A
Alpha-BHC	ND		ug/kg	0.832	0.236	1	A
Beta-BHC	ND		ug/kg	2.00	0.757	1	A
Heptachlor	ND		ug/kg	0.999	0.448	1	A
Aldrin	ND		ug/kg	2.00	0.703	1	A
Heptachlor epoxide	ND		ug/kg	3.74	1.12	1	A
Endrin	ND		ug/kg	0.832	0.341	1	A
Endrin aldehyde	ND		ug/kg	2.50	0.874	1	A
Endrin ketone	ND		ug/kg	2.00	0.514	1	A
Dieldrin	ND		ug/kg	1.25	0.624	1	A
4,4'-DDE	ND		ug/kg	2.00	0.462	1	A
4,4'-DDD	ND		ug/kg	2.00	0.712	1	A
4,4'-DDT	ND		ug/kg	3.74	1.61	1	A
Endosulfan I	ND		ug/kg	2.00	0.472	1	A
Endosulfan II	ND		ug/kg	2.00	0.667	1	A
Endosulfan sulfate	ND		ug/kg	0.832	0.396	1	A
Methoxychlor	ND		ug/kg	3.74	1.16	1	A
Toxaphene	ND		ug/kg	37.4	10.5	1	A
cis-Chlordane	ND		ug/kg	2.50	0.696	1	A
trans-Chlordane	ND		ug/kg	2.50	0.659	1	A
Chlordane	ND		ug/kg	16.6	6.62	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-13 Date Collected: 10/18/21 16:00

Client ID: EP58_ -3 Date Received: 10/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	111		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2156956
Project Number: 170599501
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-13
Client ID: EP58_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 16:00
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/21/21 01:44
Analyst: AR
Percent Solids: 79%
Methylation Date: 10/20/21 12:46

Extraction Method: EPA 8151A
Extraction Date: 10/19/21 13:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	205	12.9	1	A
2,4,5-T	ND		ug/kg	205	6.35	1	A
2,4,5-TP (Silvex)	ND		ug/kg	205	5.45	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	85		30-150	A
DCAA	73		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/20/21 11:54
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 10/19/21 12:09
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-13 Batch: WG1560455-1						
Delta-BHC	ND		ug/kg	1.50	0.295	A
Lindane	ND		ug/kg	0.627	0.280	A
Alpha-BHC	ND		ug/kg	0.627	0.178	A
Beta-BHC	ND		ug/kg	1.50	0.571	A
Heptachlor	ND		ug/kg	0.753	0.338	A
Aldrin	ND		ug/kg	1.50	0.530	A
Heptachlor epoxide	ND		ug/kg	2.82	0.847	A
Endrin	ND		ug/kg	0.627	0.257	A
Endrin aldehyde	ND		ug/kg	1.88	0.659	A
Endrin ketone	ND		ug/kg	1.50	0.388	A
Dieldrin	ND		ug/kg	0.941	0.470	A
4,4'-DDE	ND		ug/kg	1.50	0.348	A
4,4'-DDD	ND		ug/kg	1.50	0.537	A
4,4'-DDT	ND		ug/kg	2.82	1.21	A
Endosulfan I	ND		ug/kg	1.50	0.356	A
Endosulfan II	ND		ug/kg	1.50	0.503	A
Endosulfan sulfate	ND		ug/kg	0.627	0.299	A
Methoxychlor	ND		ug/kg	2.82	0.878	A
Toxaphene	ND		ug/kg	28.2	7.90	A
cis-Chlordane	ND		ug/kg	1.88	0.524	A
trans-Chlordane	ND		ug/kg	1.88	0.497	A
Chlordane	ND		ug/kg	12.5	4.99	A

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/20/21 11:54
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 10/19/21 12:09
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-13 Batch: WG1560455-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 10/20/21 18:56
Analyst: AR

Extraction Method: EPA 8151A
Extraction Date: 10/19/21 12:49

Methylation Date: 10/20/21 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-13 Batch: WG1560467-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.01	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.30	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	76		30-150	A
DCAA	70		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-13 Batch: WG1560455-2 WG1560455-3									
Delta-BHC	75		70		30-150	7		30	A
Lindane	75		75		30-150	0		30	A
Alpha-BHC	78		78		30-150	0		30	A
Beta-BHC	78		76		30-150	3		30	A
Heptachlor	80		79		30-150	1		30	A
Aldrin	76		76		30-150	0		30	A
Heptachlor epoxide	65		65		30-150	0		30	A
Endrin	75		76		30-150	1		30	A
Endrin aldehyde	63		60		30-150	5		30	A
Endrin ketone	65		66		30-150	2		30	A
Dieldrin	76		76		30-150	0		30	A
4,4'-DDE	70		70		30-150	0		30	A
4,4'-DDD	74		77		30-150	4		30	A
4,4'-DDT	73		76		30-150	4		30	A
Endosulfan I	68		68		30-150	0		30	A
Endosulfan II	72		73		30-150	1		30	A
Endosulfan sulfate	61		62		30-150	2		30	A
Methoxychlor	67		72		30-150	7		30	A
cis-Chlordane	60		59		30-150	2		30	A
trans-Chlordane	84		81		30-150	4		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2156956

Report Date: 10/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-13 Batch: WG1560455-2 WG1560455-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		75		30-150	A
Decachlorobiphenyl	83		88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		70		30-150	B
Decachlorobiphenyl	63		65		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-13 Batch: WG1560467-2 WG1560467-3									
2,4-D	79		78		30-150	1		30	A
2,4,5-T	74		74		30-150	0		30	A
2,4,5-TP (Silvex)	75		76		30-150	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	81		86		30-150	A
DCAA	71		74		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2156956

Report Date: 10/25/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1560455-4 WG1560455-5 QC Sample: L2156956-12 Client ID: EP57_ -3													
Delta-BHC	ND	42.7	26.8	63		26.8	63		30-150	0		50	A
Lindane	ND	42.7	33.8	79		30.6	72		30-150	10		50	A
Alpha-BHC	ND	42.7	35.2	82		32.6	77		30-150	8		50	A
Beta-BHC	ND	42.7	33.7	79		30.3	72		30-150	11		50	A
Heptachlor	ND	42.7	36.6	86		36.9	87		30-150	1		50	A
Aldrin	ND	42.7	36.3	85		36.8	87		30-150	1		50	A
Heptachlor epoxide	ND	42.7	29.6	69		19.9	47		30-150	39		50	A
Endrin	ND	42.7	36.7	86		34.1	81		30-150	7		50	A
Endrin aldehyde	ND	42.7	30.8	72		27.6	65		30-150	11		50	A
Endrin ketone	ND	42.7	32.4	76		30.2	71		30-150	7		50	A
Dieldrin	ND	42.7	36.3	85		34.5	81		30-150	5		50	A
4,4'-DDE	ND	42.7	33.4	78		32.1	76		30-150	4		50	A
4,4'-DDD	ND	42.7	37.8	89		35.3	83		30-150	7		50	A
4,4'-DDT	ND	42.7	37.0	87		35.6	84		30-150	4		50	A
Endosulfan I	ND	42.7	31.7	74		30.8	73		30-150	3		50	A
Endosulfan II	ND	42.7	35.2	82		33.0	78		30-150	6		50	A
Endosulfan sulfate	ND	42.7	30.2	71		27.1	64		30-150	11		50	A
Methoxychlor	ND	42.7	34.3	80		33.5	79		30-150	2		50	A
cis-Chlordane	ND	42.7	27.5	64		27.0	64		30-150	2		50	A
trans-Chlordane	ND	42.7	38.0	89		37.9	90		30-150	0		50	A

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2156956

Report Date: 10/25/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1560455-4 WG1560455-5 QC Sample: L2156956-12 Client ID: EP57_ -3												

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*	*Column*
2,4,5,6-Tetrachloro-m-xylene	79		73		30-150	A
Decachlorobiphenyl	98		93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		69		30-150	B
Decachlorobiphenyl	83		74		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2156956

Report Date: 10/25/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1560467-4 WG1560467-5 QC Sample: L2156956-12 Client ID: EP57_ -3													
2,4-D	ND	216	173J	80		173J	81		30-150	0		30	A
2,4,5-T	ND	216	174J	81		166J	77		30-150	5		30	A
2,4,5-TP (Silvex)	ND	216	175J	81		167J	78		30-150	5		30	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
DCAA	89		84		30-150	A
DCAA	82		83		30-150	B

METALS

Project Name: 1607 SURF AVENUE
Lab Number: L2156956
Project Number: 170599501
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-01
Client ID: EP51_ -5
Sample Location: BROOKLYN, NY
Date Collected: 10/18/21 10:00
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	758		mg/kg	10.0	2.71	2	10/19/21 22:58	10/20/21 12:42	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	5.02	0.382	2	10/19/21 22:58	10/20/21 12:42	EPA 3050B	1,6010D	DL
Arsenic, Total	0.633	J	mg/kg	1.00	0.209	2	10/19/21 22:58	10/20/21 12:42	EPA 3050B	1,6010D	DL
Barium, Total	2.12		mg/kg	1.00	0.175	2	10/19/21 22:58	10/20/21 12:42	EPA 3050B	1,6010D	DL
Beryllium, Total	ND		mg/kg	0.502	0.033	2	10/19/21 22:58	10/20/21 12:42	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	1.00	0.098	2	10/19/21 22:58	10/20/21 12:42	EPA 3050B	1,6010D	DL
Calcium, Total	188		mg/kg	10.0	3.52	2	10/19/21 22:58	10/20/21 12:42	EPA 3050B	1,6010D	DL
Chromium, Total	2.87		mg/kg	1.00	0.096	2	10/19/21 22:58	10/20/21 12:42	EPA 3050B	1,6010D	DL
Cobalt, Total	0.994	J	mg/kg	2.01	0.167	2	10/19/21 22:58	10/20/21 12:42	EPA 3050B	1,6010D	DL
Copper, Total	0.934	J	mg/kg	1.00	0.259	2	10/19/21 22:58	10/20/21 12:42	EPA 3050B	1,6010D	DL
Iron, Total	2050		mg/kg	5.02	0.907	2	10/19/21 22:58	10/20/21 12:42	EPA 3050B	1,6010D	DL
Lead, Total	1.80	J	mg/kg	5.02	0.269	2	10/19/21 22:58	10/20/21 12:42	EPA 3050B	1,6010D	DL
Magnesium, Total	410		mg/kg	10.0	1.55	2	10/19/21 22:58	10/20/21 12:42	EPA 3050B	1,6010D	DL
Manganese, Total	14.6		mg/kg	1.00	0.160	2	10/19/21 22:58	10/20/21 12:42	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.095	0.062	1	10/20/21 00:01	10/20/21 09:50	EPA 7471B	1,7471B	AC
Nickel, Total	4.27		mg/kg	2.51	0.243	2	10/19/21 22:58	10/20/21 12:42	EPA 3050B	1,6010D	DL
Potassium, Total	128	J	mg/kg	251	14.5	2	10/19/21 22:58	10/20/21 12:42	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	2.01	0.259	2	10/19/21 22:58	10/20/21 12:42	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	1.00	0.284	2	10/19/21 22:58	10/20/21 12:42	EPA 3050B	1,6010D	DL
Sodium, Total	292		mg/kg	201	3.16	2	10/19/21 22:58	10/20/21 12:42	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	2.01	0.316	2	10/19/21 22:58	10/20/21 12:42	EPA 3050B	1,6010D	DL
Vanadium, Total	3.70		mg/kg	1.00	0.204	2	10/19/21 22:58	10/20/21 12:42	EPA 3050B	1,6010D	DL
Zinc, Total	5.13		mg/kg	5.02	0.294	2	10/19/21 22:58	10/20/21 12:42	EPA 3050B	1,6010D	DL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.6	J	mg/kg	1.0	1.1	1		10/22/21 10:17	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2156956
Project Number: 170599501
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-02
Client ID: EP52_ -5
Sample Location: BROOKLYN, NY
Date Collected: 10/18/21 10:05
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	601		mg/kg	8.85	2.39	2	10/19/21 22:58	10/20/21 12:46	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.42	0.336	2	10/19/21 22:58	10/20/21 12:46	EPA 3050B	1,6010D	DL
Arsenic, Total	0.451	J	mg/kg	0.885	0.184	2	10/19/21 22:58	10/20/21 12:46	EPA 3050B	1,6010D	DL
Barium, Total	1.98		mg/kg	0.885	0.154	2	10/19/21 22:58	10/20/21 12:46	EPA 3050B	1,6010D	DL
Beryllium, Total	ND		mg/kg	0.442	0.029	2	10/19/21 22:58	10/20/21 12:46	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.885	0.087	2	10/19/21 22:58	10/20/21 12:46	EPA 3050B	1,6010D	DL
Calcium, Total	143		mg/kg	8.85	3.10	2	10/19/21 22:58	10/20/21 12:46	EPA 3050B	1,6010D	DL
Chromium, Total	2.26		mg/kg	0.885	0.085	2	10/19/21 22:58	10/20/21 12:46	EPA 3050B	1,6010D	DL
Cobalt, Total	0.690	J	mg/kg	1.77	0.147	2	10/19/21 22:58	10/20/21 12:46	EPA 3050B	1,6010D	DL
Copper, Total	0.699	J	mg/kg	0.885	0.228	2	10/19/21 22:58	10/20/21 12:46	EPA 3050B	1,6010D	DL
Iron, Total	1370		mg/kg	4.42	0.799	2	10/19/21 22:58	10/20/21 12:46	EPA 3050B	1,6010D	DL
Lead, Total	1.09	J	mg/kg	4.42	0.237	2	10/19/21 22:58	10/20/21 12:46	EPA 3050B	1,6010D	DL
Magnesium, Total	334		mg/kg	8.85	1.36	2	10/19/21 22:58	10/20/21 12:46	EPA 3050B	1,6010D	DL
Manganese, Total	10.6		mg/kg	0.885	0.141	2	10/19/21 22:58	10/20/21 12:46	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.078	0.051	1	10/20/21 00:01	10/20/21 09:53	EPA 7471B	1,7471B	AC
Nickel, Total	2.39		mg/kg	2.21	0.214	2	10/19/21 22:58	10/20/21 12:46	EPA 3050B	1,6010D	DL
Potassium, Total	99.9	J	mg/kg	221	12.7	2	10/19/21 22:58	10/20/21 12:46	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	1.77	0.228	2	10/19/21 22:58	10/20/21 12:46	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.885	0.250	2	10/19/21 22:58	10/20/21 12:46	EPA 3050B	1,6010D	DL
Sodium, Total	34.5	J	mg/kg	177	2.79	2	10/19/21 22:58	10/20/21 12:46	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.77	0.279	2	10/19/21 22:58	10/20/21 12:46	EPA 3050B	1,6010D	DL
Vanadium, Total	2.71		mg/kg	0.885	0.180	2	10/19/21 22:58	10/20/21 12:46	EPA 3050B	1,6010D	DL
Zinc, Total	3.81	J	mg/kg	4.42	0.259	2	10/19/21 22:58	10/20/21 12:46	EPA 3050B	1,6010D	DL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.3		mg/kg	0.94	0.94	1		10/22/21 10:17	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2156956
Project Number: 170599501
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-03
Client ID: EP59_ -5
Sample Location: BROOKLYN, NY
Date Collected: 10/18/21 10:10
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	632		mg/kg	9.99	2.70	2	10/19/21 22:58	10/20/21 12:55	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	5.00	0.380	2	10/19/21 22:58	10/20/21 12:55	EPA 3050B	1,6010D	DL
Arsenic, Total	1.03		mg/kg	0.999	0.208	2	10/19/21 22:58	10/20/21 12:55	EPA 3050B	1,6010D	DL
Barium, Total	1.68		mg/kg	0.999	0.174	2	10/19/21 22:58	10/20/21 12:55	EPA 3050B	1,6010D	DL
Beryllium, Total	ND		mg/kg	0.500	0.033	2	10/19/21 22:58	10/20/21 12:55	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.999	0.098	2	10/19/21 22:58	10/20/21 12:55	EPA 3050B	1,6010D	DL
Calcium, Total	116		mg/kg	9.99	3.50	2	10/19/21 22:58	10/20/21 12:55	EPA 3050B	1,6010D	DL
Chromium, Total	2.16		mg/kg	0.999	0.096	2	10/19/21 22:58	10/20/21 12:55	EPA 3050B	1,6010D	DL
Cobalt, Total	0.630	J	mg/kg	2.00	0.166	2	10/19/21 22:58	10/20/21 12:55	EPA 3050B	1,6010D	DL
Copper, Total	0.590	J	mg/kg	0.999	0.258	2	10/19/21 22:58	10/20/21 12:55	EPA 3050B	1,6010D	DL
Iron, Total	1410		mg/kg	5.00	0.902	2	10/19/21 22:58	10/20/21 12:55	EPA 3050B	1,6010D	DL
Lead, Total	0.660	J	mg/kg	5.00	0.268	2	10/19/21 22:58	10/20/21 12:55	EPA 3050B	1,6010D	DL
Magnesium, Total	340		mg/kg	9.99	1.54	2	10/19/21 22:58	10/20/21 12:55	EPA 3050B	1,6010D	DL
Manganese, Total	10.9		mg/kg	0.999	0.159	2	10/19/21 22:58	10/20/21 12:55	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/20/21 00:01	10/20/21 09:57	EPA 7471B	1,7471B	AC
Nickel, Total	2.61		mg/kg	2.50	0.242	2	10/19/21 22:58	10/20/21 12:55	EPA 3050B	1,6010D	DL
Potassium, Total	109	J	mg/kg	250	14.4	2	10/19/21 22:58	10/20/21 12:55	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	2.00	0.258	2	10/19/21 22:58	10/20/21 12:55	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.999	0.283	2	10/19/21 22:58	10/20/21 12:55	EPA 3050B	1,6010D	DL
Sodium, Total	62.8	J	mg/kg	200	3.15	2	10/19/21 22:58	10/20/21 12:55	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	2.00	0.315	2	10/19/21 22:58	10/20/21 12:55	EPA 3050B	1,6010D	DL
Vanadium, Total	2.42		mg/kg	0.999	0.203	2	10/19/21 22:58	10/20/21 12:55	EPA 3050B	1,6010D	DL
Zinc, Total	2.92	J	mg/kg	5.00	0.293	2	10/19/21 22:58	10/20/21 12:55	EPA 3050B	1,6010D	DL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.2		mg/kg	1.0	1.0	1		10/22/21 10:17	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2156956
Project Number: 170599501
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-04
Client ID: EP60_ -5
Sample Location: BROOKLYN, NY
Date Collected: 10/18/21 10:15
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	469		mg/kg	9.33	2.52	2	10/19/21 22:58	10/20/21 12:59	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.66	0.354	2	10/19/21 22:58	10/20/21 12:59	EPA 3050B	1,6010D	DL
Arsenic, Total	0.242	J	mg/kg	0.933	0.194	2	10/19/21 22:58	10/20/21 12:59	EPA 3050B	1,6010D	DL
Barium, Total	1.37		mg/kg	0.933	0.162	2	10/19/21 22:58	10/20/21 12:59	EPA 3050B	1,6010D	DL
Beryllium, Total	ND		mg/kg	0.466	0.031	2	10/19/21 22:58	10/20/21 12:59	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.933	0.091	2	10/19/21 22:58	10/20/21 12:59	EPA 3050B	1,6010D	DL
Calcium, Total	172		mg/kg	9.33	3.26	2	10/19/21 22:58	10/20/21 12:59	EPA 3050B	1,6010D	DL
Chromium, Total	2.90		mg/kg	0.933	0.090	2	10/19/21 22:58	10/20/21 12:59	EPA 3050B	1,6010D	DL
Cobalt, Total	0.681	J	mg/kg	1.86	0.155	2	10/19/21 22:58	10/20/21 12:59	EPA 3050B	1,6010D	DL
Copper, Total	0.690	J	mg/kg	0.933	0.241	2	10/19/21 22:58	10/20/21 12:59	EPA 3050B	1,6010D	DL
Iron, Total	1640		mg/kg	4.66	0.842	2	10/19/21 22:58	10/20/21 12:59	EPA 3050B	1,6010D	DL
Lead, Total	0.793	J	mg/kg	4.66	0.250	2	10/19/21 22:58	10/20/21 12:59	EPA 3050B	1,6010D	DL
Magnesium, Total	235		mg/kg	9.33	1.44	2	10/19/21 22:58	10/20/21 12:59	EPA 3050B	1,6010D	DL
Manganese, Total	11.3		mg/kg	0.933	0.148	2	10/19/21 22:58	10/20/21 12:59	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.075	0.049	1	10/20/21 00:01	10/20/21 10:00	EPA 7471B	1,7471B	AC
Nickel, Total	2.23	J	mg/kg	2.33	0.226	2	10/19/21 22:58	10/20/21 12:59	EPA 3050B	1,6010D	DL
Potassium, Total	69.4	J	mg/kg	233	13.4	2	10/19/21 22:58	10/20/21 12:59	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	1.86	0.241	2	10/19/21 22:58	10/20/21 12:59	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.933	0.264	2	10/19/21 22:58	10/20/21 12:59	EPA 3050B	1,6010D	DL
Sodium, Total	74.1	J	mg/kg	186	2.94	2	10/19/21 22:58	10/20/21 12:59	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.86	0.294	2	10/19/21 22:58	10/20/21 12:59	EPA 3050B	1,6010D	DL
Vanadium, Total	4.22		mg/kg	0.933	0.189	2	10/19/21 22:58	10/20/21 12:59	EPA 3050B	1,6010D	DL
Zinc, Total	2.80	J	mg/kg	4.66	0.273	2	10/19/21 22:58	10/20/21 12:59	EPA 3050B	1,6010D	DL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.9		mg/kg	0.95	0.95	1		10/22/21 10:17	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2156956
Project Number: 170599501
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-05
Client ID: EPSW15_ -5
Sample Location: BROOKLYN, NY
Date Collected: 10/18/21 13:00
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	491		mg/kg	10.1	2.72	2	10/19/21 22:58	10/20/21 13:04	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	5.04	0.383	2	10/19/21 22:58	10/20/21 13:04	EPA 3050B	1,6010D	DL
Arsenic, Total	0.695	J	mg/kg	1.01	0.210	2	10/19/21 22:58	10/20/21 13:04	EPA 3050B	1,6010D	DL
Barium, Total	4.28		mg/kg	1.01	0.175	2	10/19/21 22:58	10/20/21 13:04	EPA 3050B	1,6010D	DL
Beryllium, Total	ND		mg/kg	0.504	0.033	2	10/19/21 22:58	10/20/21 13:04	EPA 3050B	1,6010D	DL
Cadmium, Total	0.111	J	mg/kg	1.01	0.099	2	10/19/21 22:58	10/20/21 13:04	EPA 3050B	1,6010D	DL
Calcium, Total	379		mg/kg	10.1	3.53	2	10/19/21 22:58	10/20/21 13:04	EPA 3050B	1,6010D	DL
Chromium, Total	2.71		mg/kg	1.01	0.097	2	10/19/21 22:58	10/20/21 13:04	EPA 3050B	1,6010D	DL
Cobalt, Total	0.484	J	mg/kg	2.02	0.167	2	10/19/21 22:58	10/20/21 13:04	EPA 3050B	1,6010D	DL
Copper, Total	1.67		mg/kg	1.01	0.260	2	10/19/21 22:58	10/20/21 13:04	EPA 3050B	1,6010D	DL
Iron, Total	1180		mg/kg	5.04	0.910	2	10/19/21 22:58	10/20/21 13:04	EPA 3050B	1,6010D	DL
Lead, Total	13.2		mg/kg	5.04	0.270	2	10/19/21 22:58	10/20/21 13:04	EPA 3050B	1,6010D	DL
Magnesium, Total	263		mg/kg	10.1	1.55	2	10/19/21 22:58	10/20/21 13:04	EPA 3050B	1,6010D	DL
Manganese, Total	10.4		mg/kg	1.01	0.160	2	10/19/21 22:58	10/20/21 13:04	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.094	0.061	1	10/20/21 00:01	10/20/21 10:58	EPA 7471B	1,7471B	AC
Nickel, Total	1.39	J	mg/kg	2.52	0.244	2	10/19/21 22:58	10/20/21 13:04	EPA 3050B	1,6010D	DL
Potassium, Total	94.7	J	mg/kg	252	14.5	2	10/19/21 22:58	10/20/21 13:04	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	2.02	0.260	2	10/19/21 22:58	10/20/21 13:04	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	1.01	0.285	2	10/19/21 22:58	10/20/21 13:04	EPA 3050B	1,6010D	DL
Sodium, Total	11.8	J	mg/kg	202	3.18	2	10/19/21 22:58	10/20/21 13:04	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	2.02	0.318	2	10/19/21 22:58	10/20/21 13:04	EPA 3050B	1,6010D	DL
Vanadium, Total	2.48		mg/kg	1.01	0.205	2	10/19/21 22:58	10/20/21 13:04	EPA 3050B	1,6010D	DL
Zinc, Total	37.7		mg/kg	5.04	0.295	2	10/19/21 22:58	10/20/21 13:04	EPA 3050B	1,6010D	DL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.7		mg/kg	1.0	1.1	1		10/22/21 10:17	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-06
Client ID: EPSW16_ -5
Sample Location: BROOKLYN, NY
Date Collected: 10/18/21 13:10
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	779		mg/kg	10.2	2.74	2	10/19/21 22:58	10/20/21 13:17	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	5.08	0.386	2	10/19/21 22:58	10/20/21 13:17	EPA 3050B	1,6010D	DL
Arsenic, Total	0.660	J	mg/kg	1.02	0.211	2	10/19/21 22:58	10/20/21 13:17	EPA 3050B	1,6010D	DL
Barium, Total	2.42		mg/kg	1.02	0.177	2	10/19/21 22:58	10/20/21 13:17	EPA 3050B	1,6010D	DL
Beryllium, Total	ND		mg/kg	0.508	0.034	2	10/19/21 22:58	10/20/21 13:17	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	1.02	0.100	2	10/19/21 22:58	10/20/21 13:17	EPA 3050B	1,6010D	DL
Calcium, Total	248		mg/kg	10.2	3.56	2	10/19/21 22:58	10/20/21 13:17	EPA 3050B	1,6010D	DL
Chromium, Total	2.26		mg/kg	1.02	0.098	2	10/19/21 22:58	10/20/21 13:17	EPA 3050B	1,6010D	DL
Cobalt, Total	0.823	J	mg/kg	2.03	0.169	2	10/19/21 22:58	10/20/21 13:17	EPA 3050B	1,6010D	DL
Copper, Total	0.925	J	mg/kg	1.02	0.262	2	10/19/21 22:58	10/20/21 13:17	EPA 3050B	1,6010D	DL
Iron, Total	1790		mg/kg	5.08	0.918	2	10/19/21 22:58	10/20/21 13:17	EPA 3050B	1,6010D	DL
Lead, Total	1.14	J	mg/kg	5.08	0.272	2	10/19/21 22:58	10/20/21 13:17	EPA 3050B	1,6010D	DL
Magnesium, Total	414		mg/kg	10.2	1.56	2	10/19/21 22:58	10/20/21 13:17	EPA 3050B	1,6010D	DL
Manganese, Total	12.6		mg/kg	1.02	0.162	2	10/19/21 22:58	10/20/21 13:17	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.085	0.056	1	10/20/21 00:01	10/20/21 11:02	EPA 7471B	1,7471B	AC
Nickel, Total	3.35		mg/kg	2.54	0.246	2	10/19/21 22:58	10/20/21 13:17	EPA 3050B	1,6010D	DL
Potassium, Total	125	J	mg/kg	254	14.6	2	10/19/21 22:58	10/20/21 13:17	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	2.03	0.262	2	10/19/21 22:58	10/20/21 13:17	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	1.02	0.288	2	10/19/21 22:58	10/20/21 13:17	EPA 3050B	1,6010D	DL
Sodium, Total	63.2	J	mg/kg	203	3.20	2	10/19/21 22:58	10/20/21 13:17	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	2.03	0.320	2	10/19/21 22:58	10/20/21 13:17	EPA 3050B	1,6010D	DL
Vanadium, Total	2.60		mg/kg	1.02	0.206	2	10/19/21 22:58	10/20/21 13:17	EPA 3050B	1,6010D	DL
Zinc, Total	3.89	J	mg/kg	5.08	0.298	2	10/19/21 22:58	10/20/21 13:17	EPA 3050B	1,6010D	DL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.3		mg/kg	1.1	1.1	1		10/22/21 10:17	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-07
Client ID: EPSW17_ -5
Sample Location: BROOKLYN, NY
Date Collected: 10/18/21 13:20
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	518		mg/kg	10.0	2.70	2	10/19/21 22:58	10/20/21 13:21	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	5.00	0.380	2	10/19/21 22:58	10/20/21 13:21	EPA 3050B	1,6010D	DL
Arsenic, Total	0.230	J	mg/kg	1.00	0.208	2	10/19/21 22:58	10/20/21 13:21	EPA 3050B	1,6010D	DL
Barium, Total	3.39		mg/kg	1.00	0.174	2	10/19/21 22:58	10/20/21 13:21	EPA 3050B	1,6010D	DL
Beryllium, Total	ND		mg/kg	0.500	0.033	2	10/19/21 22:58	10/20/21 13:21	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	1.00	0.098	2	10/19/21 22:58	10/20/21 13:21	EPA 3050B	1,6010D	DL
Calcium, Total	409		mg/kg	10.0	3.50	2	10/19/21 22:58	10/20/21 13:21	EPA 3050B	1,6010D	DL
Chromium, Total	3.06		mg/kg	1.00	0.096	2	10/19/21 22:58	10/20/21 13:21	EPA 3050B	1,6010D	DL
Cobalt, Total	0.510	J	mg/kg	2.00	0.166	2	10/19/21 22:58	10/20/21 13:21	EPA 3050B	1,6010D	DL
Copper, Total	0.590	J	mg/kg	1.00	0.258	2	10/19/21 22:58	10/20/21 13:21	EPA 3050B	1,6010D	DL
Iron, Total	1200		mg/kg	5.00	0.903	2	10/19/21 22:58	10/20/21 13:21	EPA 3050B	1,6010D	DL
Lead, Total	1.62	J	mg/kg	5.00	0.268	2	10/19/21 22:58	10/20/21 13:21	EPA 3050B	1,6010D	DL
Magnesium, Total	254		mg/kg	10.0	1.54	2	10/19/21 22:58	10/20/21 13:21	EPA 3050B	1,6010D	DL
Manganese, Total	11.6		mg/kg	1.00	0.159	2	10/19/21 22:58	10/20/21 13:21	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.088	0.057	1	10/20/21 00:01	10/20/21 11:05	EPA 7471B	1,7471B	AC
Nickel, Total	0.990	J	mg/kg	2.50	0.242	2	10/19/21 22:58	10/20/21 13:21	EPA 3050B	1,6010D	DL
Potassium, Total	116	J	mg/kg	250	14.4	2	10/19/21 22:58	10/20/21 13:21	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	2.00	0.258	2	10/19/21 22:58	10/20/21 13:21	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	1.00	0.283	2	10/19/21 22:58	10/20/21 13:21	EPA 3050B	1,6010D	DL
Sodium, Total	78.6	J	mg/kg	200	3.15	2	10/19/21 22:58	10/20/21 13:21	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	2.00	0.315	2	10/19/21 22:58	10/20/21 13:21	EPA 3050B	1,6010D	DL
Vanadium, Total	3.04		mg/kg	1.00	0.203	2	10/19/21 22:58	10/20/21 13:21	EPA 3050B	1,6010D	DL
Zinc, Total	2.56	J	mg/kg	5.00	0.293	2	10/19/21 22:58	10/20/21 13:21	EPA 3050B	1,6010D	DL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	3.1		mg/kg	1.0	1.0	1		10/22/21 10:17	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-08
Client ID: EPSW18_ -5
Sample Location: BROOKLYN, NY
Date Collected: 10/18/21 13:30
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	452		mg/kg	10.1	2.73	2	10/19/21 22:58	10/20/21 13:26	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	5.06	0.384	2	10/19/21 22:58	10/20/21 13:26	EPA 3050B	1,6010D	DL
Arsenic, Total	0.475	J	mg/kg	1.01	0.210	2	10/19/21 22:58	10/20/21 13:26	EPA 3050B	1,6010D	DL
Barium, Total	2.26		mg/kg	1.01	0.176	2	10/19/21 22:58	10/20/21 13:26	EPA 3050B	1,6010D	DL
Beryllium, Total	ND		mg/kg	0.506	0.033	2	10/19/21 22:58	10/20/21 13:26	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	1.01	0.099	2	10/19/21 22:58	10/20/21 13:26	EPA 3050B	1,6010D	DL
Calcium, Total	228		mg/kg	10.1	3.54	2	10/19/21 22:58	10/20/21 13:26	EPA 3050B	1,6010D	DL
Chromium, Total	1.92		mg/kg	1.01	0.097	2	10/19/21 22:58	10/20/21 13:26	EPA 3050B	1,6010D	DL
Cobalt, Total	0.617	J	mg/kg	2.02	0.168	2	10/19/21 22:58	10/20/21 13:26	EPA 3050B	1,6010D	DL
Copper, Total	0.536	J	mg/kg	1.01	0.261	2	10/19/21 22:58	10/20/21 13:26	EPA 3050B	1,6010D	DL
Iron, Total	905		mg/kg	5.06	0.913	2	10/19/21 22:58	10/20/21 13:26	EPA 3050B	1,6010D	DL
Lead, Total	1.07	J	mg/kg	5.06	0.271	2	10/19/21 22:58	10/20/21 13:26	EPA 3050B	1,6010D	DL
Magnesium, Total	224		mg/kg	10.1	1.56	2	10/19/21 22:58	10/20/21 13:26	EPA 3050B	1,6010D	DL
Manganese, Total	9.22		mg/kg	1.01	0.161	2	10/19/21 22:58	10/20/21 13:26	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.082	0.053	1	10/20/21 00:01	10/20/21 11:08	EPA 7471B	1,7471B	AC
Nickel, Total	1.21	J	mg/kg	2.53	0.245	2	10/19/21 22:58	10/20/21 13:26	EPA 3050B	1,6010D	DL
Potassium, Total	97.7	J	mg/kg	253	14.6	2	10/19/21 22:58	10/20/21 13:26	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	2.02	0.261	2	10/19/21 22:58	10/20/21 13:26	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	1.01	0.286	2	10/19/21 22:58	10/20/21 13:26	EPA 3050B	1,6010D	DL
Sodium, Total	40.4	J	mg/kg	202	3.19	2	10/19/21 22:58	10/20/21 13:26	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	2.02	0.319	2	10/19/21 22:58	10/20/21 13:26	EPA 3050B	1,6010D	DL
Vanadium, Total	2.06		mg/kg	1.01	0.205	2	10/19/21 22:58	10/20/21 13:26	EPA 3050B	1,6010D	DL
Zinc, Total	13.6		mg/kg	5.06	0.296	2	10/19/21 22:58	10/20/21 13:26	EPA 3050B	1,6010D	DL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1.9		mg/kg	1.0	1.0	1		10/22/21 10:17	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-09
Client ID: EPSW19_ -5
Sample Location: BROOKLYN, NY
Date Collected: 10/18/21 13:40
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	594		mg/kg	10.2	2.75	2	10/19/21 22:58	10/20/21 13:30	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	5.10	0.388	2	10/19/21 22:58	10/20/21 13:30	EPA 3050B	1,6010D	DL
Arsenic, Total	0.816	J	mg/kg	1.02	0.212	2	10/19/21 22:58	10/20/21 13:30	EPA 3050B	1,6010D	DL
Barium, Total	3.94		mg/kg	1.02	0.177	2	10/19/21 22:58	10/20/21 13:30	EPA 3050B	1,6010D	DL
Beryllium, Total	ND		mg/kg	0.510	0.034	2	10/19/21 22:58	10/20/21 13:30	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	1.02	0.100	2	10/19/21 22:58	10/20/21 13:30	EPA 3050B	1,6010D	DL
Calcium, Total	289		mg/kg	10.2	3.57	2	10/19/21 22:58	10/20/21 13:30	EPA 3050B	1,6010D	DL
Chromium, Total	2.74		mg/kg	1.02	0.098	2	10/19/21 22:58	10/20/21 13:30	EPA 3050B	1,6010D	DL
Cobalt, Total	0.602	J	mg/kg	2.04	0.169	2	10/19/21 22:58	10/20/21 13:30	EPA 3050B	1,6010D	DL
Copper, Total	0.490	J	mg/kg	1.02	0.263	2	10/19/21 22:58	10/20/21 13:30	EPA 3050B	1,6010D	DL
Iron, Total	1400		mg/kg	5.10	0.921	2	10/19/21 22:58	10/20/21 13:30	EPA 3050B	1,6010D	DL
Lead, Total	1.16	J	mg/kg	5.10	0.273	2	10/19/21 22:58	10/20/21 13:30	EPA 3050B	1,6010D	DL
Magnesium, Total	332		mg/kg	10.2	1.57	2	10/19/21 22:58	10/20/21 13:30	EPA 3050B	1,6010D	DL
Manganese, Total	10.8		mg/kg	1.02	0.162	2	10/19/21 22:58	10/20/21 13:30	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.10	0.065	1	10/20/21 00:01	10/20/21 11:12	EPA 7471B	1,7471B	AC
Nickel, Total	1.25	J	mg/kg	2.55	0.247	2	10/19/21 22:58	10/20/21 13:30	EPA 3050B	1,6010D	DL
Potassium, Total	161	J	mg/kg	255	14.7	2	10/19/21 22:58	10/20/21 13:30	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	2.04	0.263	2	10/19/21 22:58	10/20/21 13:30	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	1.02	0.289	2	10/19/21 22:58	10/20/21 13:30	EPA 3050B	1,6010D	DL
Sodium, Total	230		mg/kg	204	3.21	2	10/19/21 22:58	10/20/21 13:30	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	2.04	0.321	2	10/19/21 22:58	10/20/21 13:30	EPA 3050B	1,6010D	DL
Vanadium, Total	2.99		mg/kg	1.02	0.207	2	10/19/21 22:58	10/20/21 13:30	EPA 3050B	1,6010D	DL
Zinc, Total	6.96		mg/kg	5.10	0.299	2	10/19/21 22:58	10/20/21 13:30	EPA 3050B	1,6010D	DL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.7		mg/kg	1.1	1.1	1		10/22/21 10:17	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2156956
Project Number: 170599501
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-10
Client ID: EP49_ -3
Sample Location: BROOKLYN, NY
Date Collected: 10/18/21 15:30
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	356		mg/kg	10.2	2.76	2	10/19/21 22:58	10/20/21 13:34	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	5.11	0.388	2	10/19/21 22:58	10/20/21 13:34	EPA 3050B	1,6010D	DL
Arsenic, Total	0.542	J	mg/kg	1.02	0.213	2	10/19/21 22:58	10/20/21 13:34	EPA 3050B	1,6010D	DL
Barium, Total	1.26		mg/kg	1.02	0.178	2	10/19/21 22:58	10/20/21 13:34	EPA 3050B	1,6010D	DL
Beryllium, Total	ND		mg/kg	0.511	0.034	2	10/19/21 22:58	10/20/21 13:34	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	1.02	0.100	2	10/19/21 22:58	10/20/21 13:34	EPA 3050B	1,6010D	DL
Calcium, Total	174		mg/kg	10.2	3.58	2	10/19/21 22:58	10/20/21 13:34	EPA 3050B	1,6010D	DL
Chromium, Total	1.70		mg/kg	1.02	0.098	2	10/19/21 22:58	10/20/21 13:34	EPA 3050B	1,6010D	DL
Cobalt, Total	0.450	J	mg/kg	2.04	0.170	2	10/19/21 22:58	10/20/21 13:34	EPA 3050B	1,6010D	DL
Copper, Total	0.307	J	mg/kg	1.02	0.264	2	10/19/21 22:58	10/20/21 13:34	EPA 3050B	1,6010D	DL
Iron, Total	766		mg/kg	5.11	0.923	2	10/19/21 22:58	10/20/21 13:34	EPA 3050B	1,6010D	DL
Lead, Total	0.787	J	mg/kg	5.11	0.274	2	10/19/21 22:58	10/20/21 13:34	EPA 3050B	1,6010D	DL
Magnesium, Total	304		mg/kg	10.2	1.57	2	10/19/21 22:58	10/20/21 13:34	EPA 3050B	1,6010D	DL
Manganese, Total	6.45		mg/kg	1.02	0.162	2	10/19/21 22:58	10/20/21 13:34	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.096	0.063	1	10/20/21 00:01	10/20/21 11:15	EPA 7471B	1,7471B	AC
Nickel, Total	0.818	J	mg/kg	2.56	0.247	2	10/19/21 22:58	10/20/21 13:34	EPA 3050B	1,6010D	DL
Potassium, Total	116	J	mg/kg	256	14.7	2	10/19/21 22:58	10/20/21 13:34	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	2.04	0.264	2	10/19/21 22:58	10/20/21 13:34	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	1.02	0.289	2	10/19/21 22:58	10/20/21 13:34	EPA 3050B	1,6010D	DL
Sodium, Total	1170		mg/kg	204	3.22	2	10/19/21 22:58	10/20/21 13:34	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	2.04	0.322	2	10/19/21 22:58	10/20/21 13:34	EPA 3050B	1,6010D	DL
Vanadium, Total	1.84		mg/kg	1.02	0.208	2	10/19/21 22:58	10/20/21 13:34	EPA 3050B	1,6010D	DL
Zinc, Total	3.98	J	mg/kg	5.11	0.300	2	10/19/21 22:58	10/20/21 13:34	EPA 3050B	1,6010D	DL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1.7		mg/kg	1.1	1.1	1		10/22/21 10:17	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2156956
Project Number: 170599501
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-11
Client ID: EP50_ -3
Sample Location: BROOKLYN, NY
Date Collected: 10/18/21 15:40
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	727		mg/kg	10.0	2.70	2	10/19/21 22:58	10/20/21 13:38	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	5.01	0.381	2	10/19/21 22:58	10/20/21 13:38	EPA 3050B	1,6010D	DL
Arsenic, Total	0.671	J	mg/kg	1.00	0.208	2	10/19/21 22:58	10/20/21 13:38	EPA 3050B	1,6010D	DL
Barium, Total	3.21		mg/kg	1.00	0.174	2	10/19/21 22:58	10/20/21 13:38	EPA 3050B	1,6010D	DL
Beryllium, Total	ND		mg/kg	0.501	0.033	2	10/19/21 22:58	10/20/21 13:38	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	1.00	0.098	2	10/19/21 22:58	10/20/21 13:38	EPA 3050B	1,6010D	DL
Calcium, Total	297		mg/kg	10.0	3.51	2	10/19/21 22:58	10/20/21 13:38	EPA 3050B	1,6010D	DL
Chromium, Total	2.96		mg/kg	1.00	0.096	2	10/19/21 22:58	10/20/21 13:38	EPA 3050B	1,6010D	DL
Cobalt, Total	0.952	J	mg/kg	2.00	0.166	2	10/19/21 22:58	10/20/21 13:38	EPA 3050B	1,6010D	DL
Copper, Total	0.641	J	mg/kg	1.00	0.258	2	10/19/21 22:58	10/20/21 13:38	EPA 3050B	1,6010D	DL
Iron, Total	1470		mg/kg	5.01	0.905	2	10/19/21 22:58	10/20/21 13:38	EPA 3050B	1,6010D	DL
Lead, Total	1.28	J	mg/kg	5.01	0.268	2	10/19/21 22:58	10/20/21 13:38	EPA 3050B	1,6010D	DL
Magnesium, Total	323		mg/kg	10.0	1.54	2	10/19/21 22:58	10/20/21 13:38	EPA 3050B	1,6010D	DL
Manganese, Total	13.0		mg/kg	1.00	0.159	2	10/19/21 22:58	10/20/21 13:38	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.088	0.057	1	10/20/21 00:01	10/20/21 11:18	EPA 7471B	1,7471B	AC
Nickel, Total	2.06	J	mg/kg	2.50	0.242	2	10/19/21 22:58	10/20/21 13:38	EPA 3050B	1,6010D	DL
Potassium, Total	137	J	mg/kg	250	14.4	2	10/19/21 22:58	10/20/21 13:38	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	2.00	0.258	2	10/19/21 22:58	10/20/21 13:38	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	1.00	0.284	2	10/19/21 22:58	10/20/21 13:38	EPA 3050B	1,6010D	DL
Sodium, Total	17.9	J	mg/kg	200	3.16	2	10/19/21 22:58	10/20/21 13:38	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	2.00	0.316	2	10/19/21 22:58	10/20/21 13:38	EPA 3050B	1,6010D	DL
Vanadium, Total	3.82		mg/kg	1.00	0.203	2	10/19/21 22:58	10/20/21 13:38	EPA 3050B	1,6010D	DL
Zinc, Total	18.7		mg/kg	5.01	0.294	2	10/19/21 22:58	10/20/21 13:38	EPA 3050B	1,6010D	DL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	3.0		mg/kg	1.0	1.1	1		10/22/21 10:17	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2156956
Project Number: 170599501
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-12
Client ID: EP57_ -3
Sample Location: BROOKLYN, NY
Date Collected: 10/18/21 15:50
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	442		mg/kg	9.85	2.66	2	10/19/21 22:58	10/20/21 11:55	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.92	0.374	2	10/19/21 22:58	10/20/21 11:55	EPA 3050B	1,6010D	DL
Arsenic, Total	0.335	J	mg/kg	0.985	0.205	2	10/19/21 22:58	10/20/21 11:55	EPA 3050B	1,6010D	DL
Barium, Total	2.32		mg/kg	0.985	0.171	2	10/19/21 22:58	10/20/21 11:55	EPA 3050B	1,6010D	DL
Beryllium, Total	ND		mg/kg	0.492	0.033	2	10/19/21 22:58	10/20/21 11:55	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.985	0.097	2	10/19/21 22:58	10/20/21 11:55	EPA 3050B	1,6010D	DL
Calcium, Total	209		mg/kg	9.85	3.45	2	10/19/21 22:58	10/20/21 11:55	EPA 3050B	1,6010D	DL
Chromium, Total	1.86		mg/kg	0.985	0.095	2	10/19/21 22:58	10/20/21 11:55	EPA 3050B	1,6010D	DL
Cobalt, Total	0.374	J	mg/kg	1.97	0.163	2	10/19/21 22:58	10/20/21 11:55	EPA 3050B	1,6010D	DL
Copper, Total	0.384	J	mg/kg	0.985	0.254	2	10/19/21 22:58	10/20/21 11:55	EPA 3050B	1,6010D	DL
Iron, Total	859		mg/kg	4.92	0.889	2	10/19/21 22:58	10/20/21 11:55	EPA 3050B	1,6010D	DL
Lead, Total	0.857	J	mg/kg	4.92	0.264	2	10/19/21 22:58	10/20/21 11:55	EPA 3050B	1,6010D	DL
Magnesium, Total	334		mg/kg	9.85	1.52	2	10/19/21 22:58	10/20/21 11:55	EPA 3050B	1,6010D	DL
Manganese, Total	7.45		mg/kg	0.985	0.156	2	10/19/21 22:58	10/20/21 11:55	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.088	0.057	1	10/20/21 00:01	10/20/21 09:14	EPA 7471B	1,7471B	AC
Nickel, Total	0.945	J	mg/kg	2.46	0.238	2	10/19/21 22:58	10/20/21 11:55	EPA 3050B	1,6010D	DL
Potassium, Total	147	J	mg/kg	246	14.2	2	10/19/21 22:58	10/20/21 11:55	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	1.97	0.254	2	10/19/21 22:58	10/20/21 11:55	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.985	0.279	2	10/19/21 22:58	10/20/21 11:55	EPA 3050B	1,6010D	DL
Sodium, Total	1050		mg/kg	197	3.10	2	10/19/21 22:58	10/20/21 11:55	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.97	0.310	2	10/19/21 22:58	10/20/21 11:55	EPA 3050B	1,6010D	DL
Vanadium, Total	1.89		mg/kg	0.985	0.200	2	10/19/21 22:58	10/20/21 11:55	EPA 3050B	1,6010D	DL
Zinc, Total	13.3		mg/kg	4.92	0.288	2	10/19/21 22:58	10/20/21 11:55	EPA 3050B	1,6010D	DL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1.9		mg/kg	1.0	1.0	1		10/22/21 10:17	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2156956
Project Number: 170599501
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-13
Client ID: EP58_ -3
Sample Location: BROOKLYN, NY
Date Collected: 10/18/21 16:00
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	428		mg/kg	9.97	2.69	2	10/19/21 22:58	10/20/21 13:43	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.99	0.379	2	10/19/21 22:58	10/20/21 13:43	EPA 3050B	1,6010D	DL
Arsenic, Total	0.499	J	mg/kg	0.997	0.207	2	10/19/21 22:58	10/20/21 13:43	EPA 3050B	1,6010D	DL
Barium, Total	2.79		mg/kg	0.997	0.174	2	10/19/21 22:58	10/20/21 13:43	EPA 3050B	1,6010D	DL
Beryllium, Total	ND		mg/kg	0.499	0.033	2	10/19/21 22:58	10/20/21 13:43	EPA 3050B	1,6010D	DL
Cadmium, Total	0.10	J	mg/kg	0.997	0.098	2	10/19/21 22:58	10/20/21 13:43	EPA 3050B	1,6010D	DL
Calcium, Total	294		mg/kg	9.97	3.49	2	10/19/21 22:58	10/20/21 13:43	EPA 3050B	1,6010D	DL
Chromium, Total	2.62		mg/kg	0.997	0.096	2	10/19/21 22:58	10/20/21 13:43	EPA 3050B	1,6010D	DL
Cobalt, Total	0.519	J	mg/kg	1.99	0.166	2	10/19/21 22:58	10/20/21 13:43	EPA 3050B	1,6010D	DL
Copper, Total	0.379	J	mg/kg	0.997	0.257	2	10/19/21 22:58	10/20/21 13:43	EPA 3050B	1,6010D	DL
Iron, Total	1160		mg/kg	4.99	0.901	2	10/19/21 22:58	10/20/21 13:43	EPA 3050B	1,6010D	DL
Lead, Total	1.29	J	mg/kg	4.99	0.267	2	10/19/21 22:58	10/20/21 13:43	EPA 3050B	1,6010D	DL
Magnesium, Total	218		mg/kg	9.97	1.54	2	10/19/21 22:58	10/20/21 13:43	EPA 3050B	1,6010D	DL
Manganese, Total	10.4		mg/kg	0.997	0.159	2	10/19/21 22:58	10/20/21 13:43	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.086	0.056	1	10/20/21 00:01	10/20/21 11:21	EPA 7471B	1,7471B	AC
Nickel, Total	1.39	J	mg/kg	2.49	0.241	2	10/19/21 22:58	10/20/21 13:43	EPA 3050B	1,6010D	DL
Potassium, Total	112	J	mg/kg	249	14.4	2	10/19/21 22:58	10/20/21 13:43	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	1.99	0.257	2	10/19/21 22:58	10/20/21 13:43	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.997	0.282	2	10/19/21 22:58	10/20/21 13:43	EPA 3050B	1,6010D	DL
Sodium, Total	147	J	mg/kg	199	3.14	2	10/19/21 22:58	10/20/21 13:43	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.99	0.314	2	10/19/21 22:58	10/20/21 13:43	EPA 3050B	1,6010D	DL
Vanadium, Total	3.05		mg/kg	0.997	0.202	2	10/19/21 22:58	10/20/21 13:43	EPA 3050B	1,6010D	DL
Zinc, Total	17.3		mg/kg	4.99	0.292	2	10/19/21 22:58	10/20/21 13:43	EPA 3050B	1,6010D	DL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.6		mg/kg	1.0	1.0	1		10/22/21 10:17	NA	107,-	

Project Name: 1607 SURF AVENUE **Lab Number:** L2156956

Project Number: 170599501 **Report Date:** 10/25/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-13 Batch: WG1560435-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	10/19/21 22:58	10/20/21 11:33	1,6010D	DL
Antimony, Total	ND		mg/kg	2.00	0.152	1	10/19/21 22:58	10/20/21 11:33	1,6010D	DL
Arsenic, Total	ND		mg/kg	0.400	0.083	1	10/19/21 22:58	10/20/21 11:33	1,6010D	DL
Barium, Total	ND		mg/kg	0.400	0.070	1	10/19/21 22:58	10/20/21 11:33	1,6010D	DL
Beryllium, Total	ND		mg/kg	0.200	0.013	1	10/19/21 22:58	10/20/21 11:33	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.400	0.039	1	10/19/21 22:58	10/20/21 11:33	1,6010D	DL
Calcium, Total	ND		mg/kg	4.00	1.40	1	10/19/21 22:58	10/20/21 11:33	1,6010D	DL
Chromium, Total	0.184	J	mg/kg	0.400	0.038	1	10/19/21 22:58	10/20/21 11:33	1,6010D	DL
Cobalt, Total	ND		mg/kg	0.800	0.066	1	10/19/21 22:58	10/20/21 11:33	1,6010D	DL
Copper, Total	ND		mg/kg	0.400	0.103	1	10/19/21 22:58	10/20/21 11:33	1,6010D	DL
Iron, Total	1.09	J	mg/kg	2.00	0.361	1	10/19/21 22:58	10/20/21 11:33	1,6010D	DL
Lead, Total	ND		mg/kg	2.00	0.107	1	10/19/21 22:58	10/20/21 11:33	1,6010D	DL
Magnesium, Total	ND		mg/kg	4.00	0.616	1	10/19/21 22:58	10/20/21 11:33	1,6010D	DL
Manganese, Total	ND		mg/kg	0.400	0.064	1	10/19/21 22:58	10/20/21 11:33	1,6010D	DL
Nickel, Total	ND		mg/kg	1.00	0.097	1	10/19/21 22:58	10/20/21 11:33	1,6010D	DL
Potassium, Total	ND		mg/kg	100	5.76	1	10/19/21 22:58	10/20/21 11:33	1,6010D	DL
Selenium, Total	ND		mg/kg	0.800	0.103	1	10/19/21 22:58	10/20/21 11:33	1,6010D	DL
Silver, Total	ND		mg/kg	0.400	0.113	1	10/19/21 22:58	10/20/21 11:33	1,6010D	DL
Sodium, Total	ND		mg/kg	80.0	1.26	1	10/19/21 22:58	10/20/21 11:33	1,6010D	DL
Thallium, Total	ND		mg/kg	0.800	0.126	1	10/19/21 22:58	10/20/21 11:33	1,6010D	DL
Vanadium, Total	ND		mg/kg	0.400	0.081	1	10/19/21 22:58	10/20/21 11:33	1,6010D	DL
Zinc, Total	ND		mg/kg	2.00	0.117	1	10/19/21 22:58	10/20/21 11:33	1,6010D	DL

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-13 Batch: WG1560436-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/20/21 00:01	10/20/21 09:07	1,7471B	AC

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2156956

Report Date: 10/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-13 Batch: WG1560435-2 SRM Lot Number: D109-540								
Aluminum, Total	67		-		50-150	-		
Antimony, Total	107		-		19-250	-		
Arsenic, Total	92		-		70-130	-		
Barium, Total	87		-		75-125	-		
Beryllium, Total	90		-		75-125	-		
Cadmium, Total	89		-		75-125	-		
Calcium, Total	87		-		73-128	-		
Chromium, Total	90		-		70-130	-		
Cobalt, Total	91		-		75-125	-		
Copper, Total	91		-		75-125	-		
Iron, Total	95		-		35-165	-		
Lead, Total	88		-		72-128	-		
Magnesium, Total	84		-		62-138	-		
Manganese, Total	86		-		74-126	-		
Nickel, Total	90		-		70-130	-		
Potassium, Total	78		-		59-141	-		
Selenium, Total	90		-		68-132	-		
Silver, Total	91		-		68-131	-		
Sodium, Total	93		-		35-165	-		
Thallium, Total	87		-		68-131	-		
Vanadium, Total	84		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2156956

Report Date: 10/25/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-13 Batch: WG1560435-2 SRM Lot Number: D109-540					
Zinc, Total	90	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-13 Batch: WG1560436-2 SRM Lot Number: D109-540					
Mercury, Total	114	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-13 QC Batch ID: WG1560435-3 WG1560435-4 QC Sample: L2156956-12 Client ID: EP57_ -3												
Aluminum, Total	442	208	737	**142**	Q	715	**138**	Q	75-125	3		20
Antimony, Total	ND	51.9	49.7	96		47.0	95		75-125	6		20
Arsenic, Total	0.335J	12.4	12.7	102		11.7	98		75-125	8		20
Barium, Total	2.32	208	202	96		188	94		75-125	7		20
Beryllium, Total	ND	5.19	5.17	100		4.83	98		75-125	7		20
Cadmium, Total	ND	5.5	5.51	100		5.28	101		75-125	4		20
Calcium, Total	209	1040	1240	99		1200	100		75-125	3		20
Chromium, Total	1.86	20.8	22.2	98		21.1	97		75-125	5		20
Cobalt, Total	0.374J	51.9	48.9	94		46.8	94		75-125	4		20
Copper, Total	0.384J	26	25.1	97		23.5	95		75-125	7		20
Iron, Total	859	104	1020	**155**	Q	1010	**152**	Q	75-125	1		20
Lead, Total	0.857J	55	53.6	97		51.3	98		75-125	4		20
Magnesium, Total	334	1040	1420	105		1350	103		75-125	5		20
Manganese, Total	7.45	51.9	56.1	94		52.9	92		75-125	6		20
Nickel, Total	0.945J	51.9	49.6	96		47.4	96		75-125	5		20
Potassium, Total	147J	1040	1190	115		1100	111		75-125	8		20
Selenium, Total	ND	12.4	11.9	96		11.2	94		75-125	6		20
Silver, Total	ND	31.1	31.9	102		29.8	100		75-125	7		20
Sodium, Total	1050	1040	2070	98		1980	94		75-125	4		20
Thallium, Total	ND	12.4	12.1	97		11.6	98		75-125	4		20
Vanadium, Total	1.89	51.9	49.0	91		45.8	89		75-125	7		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-13 QC Batch ID: WG1560435-3 WG1560435-4 QC Sample: L2156956-12 Client ID: EP57_ -3									
Zinc, Total	13.3	51.9	63.3	96	60.4	95	75-125	5	20
Total Metals - Mansfield Lab Associated sample(s): 01-13 QC Batch ID: WG1560436-3 WG1560436-4 QC Sample: L2156956-12 Client ID: EP57_ -3									
Mercury, Total	ND	0.174	0.179	103	0.168	102	80-120	6	20

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2156956
Report Date: 10/25/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-13 QC Batch ID: WG1560435-6 QC Sample: L2156956-12 Client ID: EP57_ -3						
Aluminum, Total	442	479	mg/kg	8		20
Iron, Total	859	988	mg/kg	15		20
Magnesium, Total	334	396	mg/kg	19		20

INORGANICS
&
MISCELLANEOUS

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-01
Client ID: EP51_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:00
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.3		%	0.100	NA	1	-	10/19/21 09:11	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.3	0.27	1	10/20/21 15:00	10/20/21 19:23	1,9010C/9012B	JO
Chromium, Hexavalent	0.262	J	mg/kg	1.05	0.210	1	10/19/21 16:27	10/22/21 10:17	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-02
Client ID: EP52_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:05
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.5		%	0.100	NA	1	-	10/19/21 09:11	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	10/20/21 15:00	10/20/21 19:23	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.936	0.187	1	10/19/21 16:27	10/22/21 10:17	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-03
Client ID: EP59_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 10:10
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.8		%	0.100	NA	1	-	10/19/21 09:11	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	10/20/21 15:00	10/20/21 19:29	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	1.03	0.206	1	10/19/21 16:27	10/22/21 10:17	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-04
Client ID: EP60_ -5
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/18/21 10:15
Date Received: 10/18/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.9		%	0.100	NA	1	-	10/19/21 09:11	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	10/20/21 15:00	10/20/21 19:30	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.954	0.191	1	10/19/21 16:27	10/22/21 10:17	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-05
Client ID: EPSW15_ -5
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/18/21 13:00
Date Received: 10/18/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.2		%	0.100	NA	1	-	10/19/21 09:11	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	10/20/21 15:00	10/20/21 19:31	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	1.05	0.210	1	10/19/21 16:27	10/22/21 10:17	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-06
Client ID: EPSW16_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:10
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.7		%	0.100	NA	1	-	10/19/21 09:11	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.3	0.27	1	10/20/21 15:00	10/20/21 19:32	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	1.06	0.211	1	10/19/21 16:27	10/22/21 10:17	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-07
Client ID: EPSW17_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:20
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.0		%	0.100	NA	1	-	10/19/21 09:11	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	10/20/21 15:00	10/20/21 19:33	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	1.01	0.202	1	10/19/21 16:27	10/22/21 10:17	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-08
Client ID: EPSW18_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:30
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.0		%	0.100	NA	1	-	10/19/21 09:11	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.3	0.27	1	10/20/21 15:00	10/20/21 19:34	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	1.04	0.208	1	10/19/21 16:27	10/22/21 10:17	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-09
Client ID: EPSW19_ -5
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 13:40
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.6		%	0.100	NA	1	-	10/19/21 09:11	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.3	0.27	1	10/20/21 15:00	10/20/21 19:35	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	1.09	0.217	1	10/19/21 16:27	10/22/21 10:17	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-10
Client ID: EP49_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 15:30
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.6		%	0.100	NA	1	-	10/19/21 09:11	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	10/20/21 15:00	10/20/21 19:36	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	1.07	0.214	1	10/19/21 16:27	10/22/21 10:17	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-11
Client ID: EP50_ -3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/18/21 15:40
Date Received: 10/18/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.0		%	0.100	NA	1	-	10/19/21 09:11	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.3	0.28	1	10/20/21 15:00	10/20/21 19:54	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	1.05	0.210	1	10/19/21 16:27	10/22/21 10:17	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-12
Client ID: EP57_ -3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/18/21 15:50
Date Received: 10/18/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.7		%	0.100	NA	1	-	10/19/21 09:11	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	10/20/21 15:00	10/20/21 19:55	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	1.04	0.209	1	10/19/21 16:27	10/22/21 10:17	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

SAMPLE RESULTS

Lab ID: L2156956-13
Client ID: EP58_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/18/21 16:00
Date Received: 10/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.0		%	0.100	NA	1	-	10/19/21 09:11	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	10/20/21 15:00	10/20/21 19:56	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	1.01	0.202	1	10/19/21 16:27	10/22/21 10:17	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2156956
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Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1560311-1										
Chromium, Hexavalent	0.570	J	mg/kg	0.800	0.160	1	10/19/21 16:27	10/22/21 10:17	1,7196A	NL
General Chemistry - Westborough Lab for sample(s): 11-13 Batch: WG1560313-1										
Chromium, Hexavalent	0.570	J	mg/kg	0.800	0.160	1	10/19/21 16:27	10/22/21 10:17	1,7196A	NL
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1561057-1										
Cyanide, Total	ND		mg/kg	0.87	0.18	1	10/20/21 15:00	10/20/21 19:11	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 06-13 Batch: WG1561063-1										
Cyanide, Total	ND		mg/kg	0.87	0.18	1	10/20/21 15:00	10/20/21 19:11	1,9010C/9012B	JO

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1560311-2								
Chromium, Hexavalent	94		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 11-13 Batch: WG1560313-2								
Chromium, Hexavalent	94		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1561057-2 WG1561057-3								
Cyanide, Total	91		**42**	Q	80-120	**69**	Q	35
General Chemistry - Westborough Lab Associated sample(s): 06-13 Batch: WG1561063-2 WG1561063-3								
Cyanide, Total	91		**42**	Q	80-120	**69**	Q	35

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1560311-4 QC Sample: L2156956-01 Client ID: EP51_ -5												
Chromium, Hexavalent	0.262J	1150	1290	113		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 11-13 QC Batch ID: WG1560313-4 WG1560313-5 QC Sample: L2156956-12 Client ID: EP57_ -3												
Chromium, Hexavalent	ND	1490	1720	115		1320	118		75-125	2		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1561057-4 WG1561057-5 QC Sample: L2156956-01 Client ID: EP51_ -5												
Cyanide, Total	ND	13	14	110		14	110		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 06-13 QC Batch ID: WG1561063-4 WG1561063-5 QC Sample: L2156956-12 Client ID: EP57_ -3												
Cyanide, Total	ND	12	12	99		12	96		75-125	0		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1560251-1 QC Sample: L2156956-12 Client ID: EP57_ -3						
Solids, Total	76.7	76.7	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1560311-6 QC Sample: L2156956-01 Client ID: EP51_ -5						
Chromium, Hexavalent	0.262J	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 11-13 QC Batch ID: WG1560313-7 QC Sample: L2156956-12 Client ID: EP57_ -3						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 1607 SURF AVENUE
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Lab Number: L2156956
Report Date: 10/25/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156956-01A	Vial MeOH preserved	B	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156956-01B	Vial water preserved	B	NA		3.5	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-01C	Vial water preserved	B	NA		3.5	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-01D	Plastic 2oz unpreserved for TS	C	NA		2.4	Y	Absent		TS(7)
L2156956-01E	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L2156956-01F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2156956-01G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		HEXCR-7196(30)
L2156956-01H	Plastic 8oz unpreserved	C	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2156956-01I	Glass 500ml/16oz unpreserved	B	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2156956-02A	Vial MeOH preserved	B	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156956-02B	Vial water preserved	B	NA		3.5	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-02C	Vial water preserved	B	NA		3.5	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-02D	Plastic 2oz unpreserved for TS	C	NA		2.4	Y	Absent		TS(7)
L2156956-02E	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L2156956-02F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),MG-TI(180),HG-T(28),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2156956-02G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156956-02H	Plastic 8oz unpreserved	C	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2156956-02I	Glass 500ml/16oz unpreserved	B	NA		3.5	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2156956-03A	Vial MeOH preserved	B	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156956-03B	Vial water preserved	B	NA		3.5	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-03C	Vial water preserved	B	NA		3.5	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-03D	Plastic 2oz unpreserved for TS	C	NA		2.4	Y	Absent		TS(7)
L2156956-03E	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L2156956-03F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),PB-TI(180),CO-TI(180),V-TI(180),MG-TI(180),HG-T(28),FE-TI(180),MN-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2156956-03G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		HEXCR-7196(30)
L2156956-03H	Plastic 8oz unpreserved	C	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2156956-03I	Glass 500ml/16oz unpreserved	B	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2156956-04A	Vial MeOH preserved	B	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156956-04B	Vial water preserved	B	NA		3.5	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-04C	Vial water preserved	B	NA		3.5	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-04D	Plastic 2oz unpreserved for TS	C	NA		2.4	Y	Absent		TS(7)
L2156956-04E	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L2156956-04F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MN-TI(180),MG-TI(180),FE-TI(180),HG-T(28),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2156956-04G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		HEXCR-7196(30)
L2156956-04H	Plastic 8oz unpreserved	C	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2156956-04I	Glass 500ml/16oz unpreserved	B	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2156956-05A	Vial MeOH preserved	B	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156956-05B	Vial water preserved	B	NA		3.5	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156956-05C	Vial water preserved	B	NA		3.5	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-05D	Plastic 2oz unpreserved for TS	C	NA		2.4	Y	Absent		TS(7)
L2156956-05E	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L2156956-05F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),CR-TI(180),SE-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2156956-05G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		HEXCR-7196(30)
L2156956-05H	Plastic 8oz unpreserved	C	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2156956-05I	Glass 500ml/16oz unpreserved	B	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2156956-06A	Vial MeOH preserved	B	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156956-06B	Vial water preserved	B	NA		3.5	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-06C	Vial water preserved	B	NA		3.5	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-06D	Plastic 2oz unpreserved for TS	C	NA		2.4	Y	Absent		TS(7)
L2156956-06E	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L2156956-06F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2156956-06G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		HEXCR-7196(30)
L2156956-06H	Plastic 8oz unpreserved	C	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2156956-06I	Glass 500ml/16oz unpreserved	B	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2156956-07A	Vial MeOH preserved	B	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156956-07B	Vial water preserved	B	NA		3.5	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-07C	Vial water preserved	B	NA		3.5	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-07D	Plastic 2oz unpreserved for TS	C	NA		2.4	Y	Absent		TS(7)
L2156956-07E	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156956-07F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2156956-07G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		HEXCR-7196(30)
L2156956-07H	Plastic 8oz unpreserved	C	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2156956-07I	Glass 500ml/16oz unpreserved	B	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2156956-08A	Vial MeOH preserved	B	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156956-08B	Vial water preserved	B	NA		3.5	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-08C	Vial water preserved	B	NA		3.5	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-08D	Plastic 2oz unpreserved for TS	C	NA		2.4	Y	Absent		TS(7)
L2156956-08E	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L2156956-08F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),PB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MN-TI(180),MG-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2156956-08G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		HEXCR-7196(30)
L2156956-08H	Plastic 8oz unpreserved	C	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2156956-08I	Glass 500ml/16oz unpreserved	B	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2156956-09A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2156956-09B	Vial water preserved	A	NA		2.7	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-09C	Vial water preserved	A	NA		2.7	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-09D	Plastic 2oz unpreserved for TS	C	NA		2.4	Y	Absent		TS(7)
L2156956-09E	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2156956-09F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),CA-TI(180),NA-TI(180),K-TI(180),CD-TI(180)
L2156956-09G	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156956-09H	Plastic 8oz unpreserved	C	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2156956-09I	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2156956-10A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2156956-10B	Vial water preserved	A	NA		2.7	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-10C	Vial water preserved	A	NA		2.7	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-10D	Plastic 2oz unpreserved for TS	C	NA		2.4	Y	Absent		TS(7)
L2156956-10E	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2156956-10F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),K-TI(180),CA-TI(180),NA-TI(180),CD-TI(180)
L2156956-10G	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HEXCR-7196(30)
L2156956-10H	Plastic 8oz unpreserved	C	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2156956-10I	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2156956-11A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2156956-11B	Vial water preserved	A	NA		2.7	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-11C	Vial water preserved	A	NA		2.7	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-11D	Plastic 2oz unpreserved for TS	C	NA		2.4	Y	Absent		TS(7)
L2156956-11E	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2156956-11F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2156956-11G	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HEXCR-7196(30)
L2156956-11H	Plastic 8oz unpreserved	C	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2156956-11I	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2156956-12A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2156956-12A1	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156956-12A2	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2156956-12B	Vial water preserved	A	NA		2.7	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-12B1	Vial water preserved	A	NA		2.7	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-12B2	Vial water preserved	A	NA		2.7	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-12C	Vial water preserved	A	NA		2.7	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-12C1	Vial water preserved	A	NA		2.7	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-12C2	Vial water preserved	A	NA		2.7	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-12D	Plastic 2oz unpreserved for TS	C	NA		2.4	Y	Absent		TS(7)
L2156956-12D1	Plastic 2oz unpreserved for TS	C	NA		2.4	Y	Absent		TS(7)
L2156956-12D2	Plastic 2oz unpreserved for TS	C	NA		2.4	Y	Absent		TS(7)
L2156956-12E	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2156956-12E1	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2156956-12E2	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2156956-12F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),SE-TI(180),SB-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),CD-TI(180),NA-TI(180),K-TI(180),CA-TI(180)
L2156956-12F1	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),SE-TI(180),SB-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),CD-TI(180),NA-TI(180),K-TI(180),CA-TI(180)
L2156956-12F2	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),SE-TI(180),SB-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),CD-TI(180),NA-TI(180),K-TI(180),CA-TI(180)
L2156956-12G	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HEXCR-7196(30)
L2156956-12G1	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HEXCR-7196(30)
L2156956-12G2	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HEXCR-7196(30)
L2156956-12H	Plastic 8oz unpreserved	C	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2156956-12H1	Plastic 8oz unpreserved	C	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156956-12H2	Plastic 8oz unpreserved	C	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2156956-12I	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2156956-12I1	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2156956-12I2	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2156956-13A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2156956-13B	Vial water preserved	A	NA		2.7	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-13C	Vial water preserved	A	NA		2.7	Y	Absent	19-OCT-21 07:00	NYTCL-8260HLW(14)
L2156956-13D	Plastic 2oz unpreserved for TS	C	NA		2.4	Y	Absent		TS(7)
L2156956-13E	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2156956-13F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2156956-13G	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HEXCR-7196(30)
L2156956-13H	Plastic 8oz unpreserved	C	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2156956-13I	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2156956
Report Date: 10/25/21

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2156956
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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:	1607 SURF AVENUE	**Lab Number:**	L2156956
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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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2156956
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Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2156956
Project Number:	170599501	**Report Date:**	10/25/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

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, SM4500Cl-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, **LACHAT 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

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

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: 10/19/21

ALPHA Job #: L2156956

Client Information
Client: Langan
Address:
Phone:
Fax:
Email: KSeaman@Langan.com

Project Information
Project Name: 1607 Surf Avenue
Project Location: BROOKLYN, NY
Project #: 170599501
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date: All Analyses to be submitted on a 5-day TAT including PFAS
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

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:
CC: Lesmail@Langan ; deltamanagment@langan.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs, SVOCs	TCL Pesticides	TAL metals	TCN	Hex/Tchromium	PFAS	1,4-dioxane	Herbs, PCBs	Sample Specific Comments	Total Bottle
56956-01	EPS1_-5	10/18	10:00	S	AR										
02	EPS2_-5		10:05		AR										
03	EPS9_-5		10:10		AR										
04	EP60_-5		10:15		AR										
05	EPSW15_-5		1300		AR										
06	EPSW16_-5		1310		AR										
07	EPSW17_-5		1320		AR										
08	EPSW18_-5		1330		AR										
09	EPSW19_-5		1390		AR										
10	EP49_-3	↓	1530	↓	AR	↓	↓	↓	↓	↓	↓	↓	↓		

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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

Relinquished By:	Date/Time	Received By:	Date/Time
Ali Rezvan (Langan)	10/18/21 1715		
	10/18/21 19:10		10/18/21 20:30
			10/19/21 0205
	10/19/21 0205		10/19/21 0205

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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: 10/19/21

ALPHA Job #: L2156956

Client Information
Client: LANGAN
Address:
Phone:
Fax:
Email: KSermon@Langan.com

Project Information
Project Name: 1607 Surf Avenue
Project Location: Brooklyn, NY
Project #
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date: All samples to be submitted on a 5-day TAT including PFAS
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

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:
CC: Lesmail@Langan.com; datamanagment@Langan.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs + SVOCs	TCL Pesticides	TAL Metals	TCN	Hex Chromium	PFAS	1,4-dioxane	Herbs, PCBs	Sample Specific Comments	Total Bottle
L2156956-11	EP 50-3	10/18	1540	S	AR	↓	↓	↓	↓	↓	↓	↓	↓		
12	EP 57-3	10/18	1550	S	AR	↓	↓	↓	↓	↓	↓	↓	↓	Run as MS/MSD	
13	EP 58-3	10/18	1600	S	AR	↓	↓	↓	↓	↓	↓	↓	↓		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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															
Preservative															

Relinquished By:	Date/Time	Received By:	Date/Time
AR Each Langan Courier	10/18/21 1715	[illegible]	10/18/21 17:15
[illegible]	10/18/21 19:10	[illegible]	10/18/21 20:18
[illegible]	10/19/21 0025	[illegible]	10/19/21 0025

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2157259
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Kimberly Semon
Phone:	(212) 479-5486
Project Name:	1607 SURF AVENUE
Project Number:	170599501
Report Date:	10/26/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2157259-01	EP42_ -3	SOIL	BROOKLYN, NY	10/19/21 14:00	10/19/21
L2157259-02	EP41_ -3	SOIL	BROOKLYN, NY	10/19/21 14:05	10/19/21
L2157259-03	EP43_ -3	SOIL	BROOKLYN, NY	10/19/21 14:10	10/19/21
L2157259-04	EP34_ -3	SOIL	BROOKLYN, NY	10/19/21 14:15	10/19/21
L2157259-05	EP35_ -3	SOIL	BROOKLYN, NY	10/19/21 14:20	10/19/21
L2157259-06	EP33_ -3	SOIL	BROOKLYN, NY	10/19/21 14:25	10/19/21
L2157259-07	EP53_ -4	SOIL	BROOKLYN, NY	10/19/21 14:30	10/19/21
L2157259-08	FB02_101921	WATER	BROOKLYN, NY	10/19/21 15:00	10/19/21
L2157259-09	DUP01_101921	SOIL	BROOKLYN, NY	10/19/21 00:00	10/19/21

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2157259
Project Number:	170599501	**Report Date:**	10/26/21

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: 1607 SURF AVENUE **Lab Number:** L2157259
Project Number: 170599501 **Report Date:** 10/26/21

Case Narrative (continued)

Report Submission
October 26, 2021: This final report includes the results of all requested analyses.
October 20, 2021: This is a preliminary report.

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

Perfluorinated Alkyl Acids by Isotope Dilution
L2157259-01 and -09: The MeOH fraction of the extraction is reported for Perfluorooctanesulfonamide (FOSA) due to better extraction efficiency of the M8FOSA Surrogate (Extracted Internal Standard).

PCBs
The WG1563273-1 Method Blank, associated with L2157259-08, has a concentration above the reporting limit for Aroclor 1268. Since the associated sample concentration is non-detect to the RL, no corrective action is required.

Total Metals
L2157259-01 through -06 and -09: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.
The WG1561033-3 MS recovery, performed on L2157259-01, is outside the acceptance criteria for aluminum (247%). A post digestion spike was performed and yielded an unacceptable recovery of 26%. The serial dilution recovery was acceptable; therefore, the matrix test passed for the sample matrix.
The WG1561033-3 MS recovery for iron (508%), performed on L2157259-01, does not apply because the sample concentration is greater than four times the spike amount added.

Cyanide, Total
The WG1561491-3 LCSD recovery for cyanide, total (72%), associated with L2157259-01 through -06 and -

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2157259
Project Number:	170599501	**Report Date:**	10/26/21

Case Narrative (continued)

09, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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: Kelly Stenstrom

Title: Technical Director/Representative Date: 10/26/21

ORGANICS

VOLATILES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-01
Client ID: EP42_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/22/21 14:20
Analyst: NLK
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.6	3.5	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.22	1
Chloroform	2.0	J	ug/kg	2.3	0.21	1
Carbon tetrachloride	ND		ug/kg	1.5	0.35	1
1,2-Dichloropropane	ND		ug/kg	1.5	0.19	1
Dibromochloromethane	ND		ug/kg	1.5	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.40	1
Tetrachloroethene	ND		ug/kg	0.76	0.30	1
Chlorobenzene	ND		ug/kg	0.76	0.19	1
Trichlorofluoromethane	ND		ug/kg	6.1	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.39	1
1,1,1-Trichloroethane	ND		ug/kg	0.76	0.25	1
Bromodichloromethane	ND		ug/kg	0.76	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.41	1
cis-1,3-Dichloropropene	ND		ug/kg	0.76	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	0.76	0.24	1
1,1-Dichloropropene	ND		ug/kg	0.76	0.24	1
Bromoform	ND		ug/kg	6.1	0.37	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.76	0.25	1
Benzene	ND		ug/kg	0.76	0.25	1
Toluene	ND		ug/kg	1.5	0.82	1
Ethylbenzene	ND		ug/kg	1.5	0.21	1
Chloromethane	ND		ug/kg	6.1	1.4	1
Bromomethane	ND		ug/kg	3.0	0.88	1
Vinyl chloride	ND		ug/kg	1.5	0.51	1
Chloroethane	ND		ug/kg	3.0	0.69	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.21	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-01 Date Collected: 10/19/21 14:00

Client ID: EP42_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.76	0.21	1
1,2-Dichlorobenzene	ND		ug/kg	3.0	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	3.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	3.0	0.26	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.30	1
p/m-Xylene	ND		ug/kg	3.0	0.85	1
o-Xylene	ND		ug/kg	1.5	0.44	1
Xylenes, Total	ND		ug/kg	1.5	0.44	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.26	1
1,2-Dichloroethene, Total	ND		ug/kg	1.5	0.21	1
Dibromomethane	ND		ug/kg	3.0	0.36	1
Styrene	ND		ug/kg	1.5	0.30	1
Dichlorodifluoromethane	ND		ug/kg	15	1.4	1
Acetone	ND		ug/kg	15	7.3	1
Carbon disulfide	ND		ug/kg	15	6.9	1
2-Butanone	ND		ug/kg	15	3.4	1
Vinyl acetate	ND		ug/kg	15	3.3	1
4-Methyl-2-pentanone	ND		ug/kg	15	1.9	1
1,2,3-Trichloropropane	ND		ug/kg	3.0	0.19	1
2-Hexanone	ND		ug/kg	15	1.8	1
Bromochloromethane	ND		ug/kg	3.0	0.31	1
2,2-Dichloropropane	ND		ug/kg	3.0	0.31	1
1,2-Dibromoethane	ND		ug/kg	1.5	0.42	1
1,3-Dichloropropane	ND		ug/kg	3.0	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.76	0.20	1
Bromobenzene	ND		ug/kg	3.0	0.22	1
n-Butylbenzene	ND		ug/kg	1.5	0.25	1
sec-Butylbenzene	ND		ug/kg	1.5	0.22	1
tert-Butylbenzene	ND		ug/kg	3.0	0.18	1
o-Chlorotoluene	ND		ug/kg	3.0	0.29	1
p-Chlorotoluene	ND		ug/kg	3.0	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.6	1.5	1
Hexachlorobutadiene	ND		ug/kg	6.1	0.26	1
Isopropylbenzene	ND		ug/kg	1.5	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.16	1
Naphthalene	ND		ug/kg	6.1	0.99	1
Acrylonitrile	ND		ug/kg	6.1	1.7	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-01 Date Collected: 10/19/21 14:00

Client ID: EP42_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.5	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.0	0.49	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.0	0.41	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.0	0.29	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.0	0.51	1
1,4-Dioxane	ND		ug/kg	120	53.	1
p-Diethylbenzene	ND		ug/kg	3.0	0.27	1
p-Ethyltoluene	ND		ug/kg	3.0	0.58	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.0	0.29	1
Ethyl ether	ND		ug/kg	3.0	0.52	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.6	2.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	111		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-02
Client ID: EP41_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:05
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/22/21 14:46
Analyst: NLK
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	0.16	J	ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.19	1
Benzene	ND		ug/kg	0.56	0.19	1
Toluene	ND		ug/kg	1.1	0.61	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.2	0.65	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.2	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-02 Date Collected: 10/19/21 14:05

Client ID: EP41_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.23	1
p/m-Xylene	ND		ug/kg	2.2	0.63	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.5	0.73	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-02 Date Collected: 10/19/21 14:05

Client ID: EP41_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.38	1
1,4-Dioxane	ND		ug/kg	90	39.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.43	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	111		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-03
Client ID: EP43_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:10
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/22/21 15:13
Analyst: NLK
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.0	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.60	0.24	1
Chlorobenzene	ND		ug/kg	0.60	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.84	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	0.20	1
Bromodichloromethane	ND		ug/kg	0.60	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.60	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.60	0.19	1
Bromoform	ND		ug/kg	4.8	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	0.20	1
Benzene	ND		ug/kg	0.60	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.70	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-03 Date Collected: 10/19/21 14:10

Client ID: EP43_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.60	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.60	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.8	0.78	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-03 Date Collected: 10/19/21 14:10

Client ID: EP43_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	97	42.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.46	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	112		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-04
Client ID: EP34_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:15
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/22/21 15:40
Analyst: NLK
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-04 Date Collected: 10/19/21 14:15

Client ID: EP34_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
Xylenes, Total	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.99	1
Acetone	ND		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.3	0.70	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-04 Date Collected: 10/19/21 14:15

Client ID: EP34_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	86	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	111		70-130

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-05
Client ID: EP35_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:20
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/22/21 17:52
Analyst: NLK
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.0	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.60	0.24	1
Chlorobenzene	ND		ug/kg	0.60	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.84	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	0.20	1
Bromodichloromethane	ND		ug/kg	0.60	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.60	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.60	0.19	1
Bromoform	ND		ug/kg	4.8	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	0.20	1
Benzene	ND		ug/kg	0.60	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.70	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-05 Date Collected: 10/19/21 14:20

Client ID: EP35_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.60	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	7.8	J	ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.60	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.8	0.78	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-05 Date Collected: 10/19/21 14:20

Client ID: EP35_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	97	42.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.46	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	114		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-06
Client ID: EP33_ -3
Sample Location: BROOKLYN, NY
Date Collected: 10/19/21 14:25
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/22/21 18:19
Analyst: NLK
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	0.99	0.14	1
Chloroform	0.22	J	ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.99	0.23	1
1,2-Dichloropropane	ND		ug/kg	0.99	0.12	1
Dibromochloromethane	ND		ug/kg	0.99	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.99	0.26	1
Tetrachloroethene	ND		ug/kg	0.50	0.19	1
Chlorobenzene	ND		ug/kg	0.50	0.12	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.16	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	ND		ug/kg	0.50	0.16	1
Toluene	ND		ug/kg	0.99	0.54	1
Ethylbenzene	ND		ug/kg	0.99	0.14	1
Chloromethane	ND		ug/kg	4.0	0.92	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	0.99	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-06 Date Collected: 10/19/21 14:25

Client ID: EP33_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	0.99	0.29	1
Xylenes, Total	ND		ug/kg	0.99	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.99	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	0.99	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.91	1
Acetone	ND		ug/kg	9.9	4.8	1
Carbon disulfide	ND		ug/kg	9.9	4.5	1
2-Butanone	ND		ug/kg	9.9	2.2	1
Vinyl acetate	ND		ug/kg	9.9	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.12	1
2-Hexanone	ND		ug/kg	9.9	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.99	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	0.99	0.16	1
sec-Butylbenzene	ND		ug/kg	0.99	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.99	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	0.99	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.11	1
Naphthalene	ND		ug/kg	4.0	0.64	1
Acrylonitrile	ND		ug/kg	4.0	1.1	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-06 Date Collected: 10/19/21 14:25

Client ID: EP33_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.99	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	79	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	114		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-08
Client ID: FB02_101921
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 15:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/21/21 15:11
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-08 Date Collected: 10/19/21 15:00

Client ID: FB02_101921 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-08 Date Collected: 10/19/21 15:00

Client ID: FB02_101921 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	105		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-09
Client ID: DUP01_101921
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 00:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/22/21 18:45
Analyst: NLK
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.0	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	0.50	J	ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.60	0.23	1
Chlorobenzene	ND		ug/kg	0.60	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.83	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	0.20	1
Bromodichloromethane	ND		ug/kg	0.60	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.60	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.60	0.19	1
Bromoform	ND		ug/kg	4.8	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	0.20	1
Benzene	ND		ug/kg	0.60	0.20	1
Toluene	ND		ug/kg	1.2	0.65	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.69	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.54	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-09 Date Collected: 10/19/21 00:00

Client ID: DUP01_101921 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.60	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.67	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.7	1
Carbon disulfide	ND		ug/kg	12	5.4	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.60	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.8	0.78	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-09 Date Collected: 10/19/21 00:00

Client ID: DUP01_101921 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	95	42.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.46	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	115		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/21/21 08:45
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1561522-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/21/21 08:45
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1561522-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/21/21 08:45
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1561522-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	104		70-130

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/22/21 09:55
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-06,09 Batch: WG1561647-12					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/22/21 09:55
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-06,09 Batch: WG1561647-12					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/22/21 09:55
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-06,09 Batch: WG1561647-12					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	107		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1561522-3 WG1561522-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	95		99		63-132	4		20
1,2-Dichloropropane	100		110		70-130	10		20
Dibromochloromethane	88		94		63-130	7		20
1,1,2-Trichloroethane	97		100		70-130	3		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	110		110		75-130	0		20
Trichlorofluoromethane	100		110		62-150	10		20
1,2-Dichloroethane	97		100		70-130	3		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	96		100		67-130	4		20
trans-1,3-Dichloropropene	85		92		70-130	8		20
cis-1,3-Dichloropropene	89		97		70-130	9		20
1,1-Dichloropropene	100		110		70-130	10		20
Bromoform	85		94		54-136	10		20
1,1,2,2-Tetrachloroethane	100		110		67-130	10		20
Benzene	100		110		70-130	10		20
Toluene	110		100		70-130	10		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	110		110		64-130	0		20
Bromomethane	95		97		39-139	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1561522-3 WG1561522-4								
Vinyl chloride	96		98		55-140	2		20
Chloroethane	110		100		55-138	10		20
1,1-Dichloroethene	100		110		61-145	10		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	100		110		70-130	10		20
1,2-Dichlorobenzene	110		110		70-130	0		20
1,3-Dichlorobenzene	110		120		70-130	9		20
1,4-Dichlorobenzene	110		110		70-130	0		20
Methyl tert butyl ether	95		97		63-130	2		20
p/m-Xylene	110		115		70-130	4		20
o-Xylene	110		115		70-130	4		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Dibromomethane	96		100		70-130	4		20
1,2,3-Trichloropropane	94		100		64-130	6		20
Acrylonitrile	98		100		70-130	2		20
Styrene	120		120		70-130	0		20
Dichlorodifluoromethane	96		96		36-147	0		20
Acetone	89		93		58-148	4		20
Carbon disulfide	99		100		51-130	1		20
2-Butanone	92		95		63-138	3		20
Vinyl acetate	92		99		70-130	7		20
4-Methyl-2-pentanone	90		94		59-130	4		20
2-Hexanone	90		96		57-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1561522-3 WG1561522-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	120		120		63-133	0		20
1,2-Dibromoethane	99		100		70-130	1		20
1,3-Dichloropropane	100		100		70-130	0		20
1,1,1,2-Tetrachloroethane	91		100		64-130	9		20
Bromobenzene	110		110		70-130	0		20
n-Butylbenzene	120		120		53-136	0		20
sec-Butylbenzene	110		120		70-130	9		20
tert-Butylbenzene	110		120		70-130	9		20
o-Chlorotoluene	110		120		70-130	9		20
p-Chlorotoluene	110		120		70-130	9		20
1,2-Dibromo-3-chloropropane	84		96		41-144	13		20
Hexachlorobutadiene	110		120		63-130	9		20
Isopropylbenzene	110		120		70-130	9		20
p-Isopropyltoluene	120		120		70-130	0		20
Naphthalene	82		92		70-130	11		20
n-Propylbenzene	120		120		69-130	0		20
1,2,3-Trichlorobenzene	84		95		70-130	12		20
1,2,4-Trichlorobenzene	96		100		70-130	4		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		120		70-130	9		20
1,4-Dioxane	122		114		56-162	7		20
p-Diethylbenzene	110		120		70-130	9		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1561522-3 WG1561522-4								
p-Ethyltoluene	120		120		70-130	0		20
1,2,4,5-Tetramethylbenzene	100		110		70-130	10		20
Ethyl ether	100		99		59-134	1		20
trans-1,4-Dichloro-2-butene	91		100		70-130	9		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		99		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	103		104		70-130
Dibromofluoromethane	98		98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-06,09 Batch: WG1561647-10 WG1561647-11								
Methylene chloride	93		92		70-130	1		30
1,1-Dichloroethane	106		103		70-130	3		30
Chloroform	108		104		70-130	4		30
Carbon tetrachloride	122		117		70-130	4		30
1,2-Dichloropropane	101		100		70-130	1		30
Dibromochloromethane	100		100		70-130	0		30
1,1,2-Trichloroethane	99		98		70-130	1		30
Tetrachloroethene	113		108		70-130	5		30
Chlorobenzene	104		101		70-130	3		30
Trichlorofluoromethane	126		120		70-139	5		30
1,2-Dichloroethane	110		109		70-130	1		30
1,1,1-Trichloroethane	120		115		70-130	4		30
Bromodichloromethane	110		109		70-130	1		30
trans-1,3-Dichloropropene	96		97		70-130	1		30
cis-1,3-Dichloropropene	96		96		70-130	0		30
1,1-Dichloropropene	111		108		70-130	3		30
Bromoform	92		92		70-130	0		30
1,1,2,2-Tetrachloroethane	91		92		70-130	1		30
Benzene	101		99		70-130	2		30
Toluene	102		99		70-130	3		30
Ethylbenzene	108		105		70-130	3		30
Chloromethane	108		102		52-130	6		30
Bromomethane	91		86		57-147	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-06,09 Batch: WG1561647-10 WG1561647-11								
Vinyl chloride	100		95		67-130	5		30
Chloroethane	100		93		50-151	7		30
1,1-Dichloroethene	103		100		65-135	3		30
trans-1,2-Dichloroethene	104		100		70-130	4		30
Trichloroethene	109		107		70-130	2		30
1,2-Dichlorobenzene	102		102		70-130	0		30
1,3-Dichlorobenzene	104		103		70-130	1		30
1,4-Dichlorobenzene	102		100		70-130	2		30
Methyl tert butyl ether	100		101		66-130	1		30
p/m-Xylene	111		108		70-130	3		30
o-Xylene	110		108		70-130	2		30
cis-1,2-Dichloroethene	102		100		70-130	2		30
Dibromomethane	101		99		70-130	2		30
Styrene	113		111		70-130	2		30
Dichlorodifluoromethane	111		104		30-146	7		30
Acetone	111		103		54-140	7		30
Carbon disulfide	95		92		59-130	3		30
2-Butanone	97		95		70-130	2		30
Vinyl acetate	99		97		70-130	2		30
4-Methyl-2-pentanone	81		82		70-130	1		30
1,2,3-Trichloropropane	93		96		68-130	3		30
2-Hexanone	89		89		70-130	0		30
Bromochloromethane	102		101		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-06,09 Batch: WG1561647-10 WG1561647-11								
2,2-Dichloropropane	116		113		70-130	3		30
1,2-Dibromoethane	95		95		70-130	0		30
1,3-Dichloropropane	99		100		69-130	1		30
1,1,1,2-Tetrachloroethane	115		112		70-130	3		30
Bromobenzene	101		100		70-130	1		30
n-Butylbenzene	111		108		70-130	3		30
sec-Butylbenzene	108		106		70-130	2		30
tert-Butylbenzene	109		106		70-130	3		30
o-Chlorotoluene	104		102		70-130	2		30
p-Chlorotoluene	104		103		70-130	1		30
1,2-Dibromo-3-chloropropane	80		83		68-130	4		30
Hexachlorobutadiene	113		110		67-130	3		30
Isopropylbenzene	106		104		70-130	2		30
p-Isopropyltoluene	112		110		70-130	2		30
Naphthalene	100		102		70-130	2		30
Acrylonitrile	91		91		70-130	0		30
n-Propylbenzene	106		104		70-130	2		30
1,2,3-Trichlorobenzene	106		106		70-130	0		30
1,2,4-Trichlorobenzene	110		109		70-130	1		30
1,3,5-Trimethylbenzene	109		107		70-130	2		30
1,2,4-Trimethylbenzene	110		108		70-130	2		30
1,4-Dioxane	80		84		65-136	5		30
p-Diethylbenzene	112		110		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-06,09 Batch: WG1561647-10 WG1561647-11								
p-Ethyltoluene	109		107		70-130	2		30
1,2,4,5-Tetramethylbenzene	110		108		70-130	2		30
Ethyl ether	86		83		67-130	4		30
trans-1,4-Dichloro-2-butene	97		100		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	109		108		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	96		98		70-130
Dibromofluoromethane	103		104		70-130

SEMIVOLATILES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-01
Client ID: EP42_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/21/21 02:43
Analyst: IM
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 09:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	40.	1
1,3-Dichlorobenzene	ND		ug/kg	220	38.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	59.	1
2,4-Dinitrotoluene	ND		ug/kg	220	44.	1
2,6-Dinitrotoluene	ND		ug/kg	220	38.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	34.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	38.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	630	200	1
Hexachloroethane	ND		ug/kg	180	36.	1
Isophorone	ND		ug/kg	200	29.	1
Naphthalene	ND		ug/kg	220	27.	1
Nitrobenzene	ND		ug/kg	200	33.	1
NDPA/DPA	ND		ug/kg	180	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	76.	1
Butyl benzyl phthalate	ND		ug/kg	220	56.	1
Di-n-butylphthalate	ND		ug/kg	220	42.	1
Di-n-octylphthalate	ND		ug/kg	220	75.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-01 Date Collected: 10/19/21 14:00

Client ID: EP42_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	ND		ug/kg	130	25.	1
Benzo(a)pyrene	ND		ug/kg	180	54.	1
Benzo(b)fluoranthene	ND		ug/kg	130	37.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	ND		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	180	34.	1
Anthracene	ND		ug/kg	130	43.	1
Benzo(ghi)perylene	ND		ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	27.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	31.	1
Pyrene	ND		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	51.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	42.	1
4-Nitroaniline	ND		ug/kg	220	91.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	260	27.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	42.	1
p-Chloro-m-cresol	ND		ug/kg	220	33.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	73.	1
2-Nitrophenol	ND		ug/kg	480	83.	1
4-Nitrophenol	ND		ug/kg	310	90.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	570	100	1
Pentachlorophenol	ND		ug/kg	180	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	34.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-01 Date Collected: 10/19/21 14:00

Client ID: EP42_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	42.	1
Benzoic Acid	ND		ug/kg	710	220	1
Benzyl Alcohol	ND		ug/kg	220	67.	1
Carbazole	ND		ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	33	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	54		10-136
4-Terphenyl-d14	43		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-01
Client ID: EP42_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/21/21 19:36
Analyst: MP
Percent Solids: 74%

Extraction Method: ALPHA 23528
Extraction Date: 10/20/21 10:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.594	0.027	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.594	0.055	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.297	0.046	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.594	0.062	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.297	0.054	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.297	0.072	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.297	0.050	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.594	0.213	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.594	0.162	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.297	0.089	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.297	0.154	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.297	0.080	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.594	0.341	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.594	0.240	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.594	0.056	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.594	0.182	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.594	0.100	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.594	0.083	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.594	0.243	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.594	0.064	1
PFOA/PFOS, Total	ND		ng/g	0.297	0.050	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-01 Date Collected: 10/19/21 14:00

Client ID: EP42_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	92		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	98		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	97		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	104		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	111		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	131		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	79		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	104		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	82		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	88		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	74		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-01
Client ID: EP42_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/22/21 02:27
Analyst: HT
Percent Solids: 74%

Extraction Method: ALPHA 23528
Extraction Date: 10/20/21 10:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.594	0.116	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	59		10-117

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-02
Client ID: EP41_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:05
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/21/21 01:16
Analyst: IM
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 09:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	29.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	43.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	200	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	200	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	55.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-02 Date Collected: 10/19/21 14:05

Client ID: EP41_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	34.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	26.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	50.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	ND		ug/kg	220	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	72.	1
2-Nitrophenol	ND		ug/kg	470	82.	1
4-Nitrophenol	ND		ug/kg	300	89.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-02 Date Collected: 10/19/21 14:05

Client ID: EP41_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	42.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	220	66.	1
Carbazole	ND		ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	32	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	56		30-120
2,4,6-Tribromophenol	54		10-136
4-Terphenyl-d14	39		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-02
Client ID: EP41_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:05
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/21/21 19:52
Analyst: MP
Percent Solids: 76%

Extraction Method: ALPHA 23528
Extraction Date: 10/20/21 10:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.620	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.620	0.057	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.310	0.048	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.620	0.065	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.310	0.056	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.310	0.075	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.310	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.620	0.223	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.620	0.169	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.310	0.093	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.310	0.161	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.310	0.083	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.620	0.356	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.620	0.250	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.620	0.058	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.620	0.190	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.620	0.122	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.620	0.105	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.620	0.087	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.620	0.254	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.620	0.067	1
PFOA/PFOS, Total	ND		ng/g	0.310	0.052	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-02 Date Collected: 10/19/21 14:05

Client ID: EP41_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	90		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	92		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	97		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	103		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	110		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	103		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	137		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	80		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	110		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	19		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	88		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	97		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	91		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-03
Client ID: EP43_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:10
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/21/21 01:38
Analyst: IM
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 09:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	220	21.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	57.	1
2,4-Dinitrotoluene	ND		ug/kg	220	43.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	54.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	73.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-03 Date Collected: 10/19/21 14:10

Client ID: EP43_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	45.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	220	39.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	89.	1
Dibenzofuran	ND		ug/kg	220	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	22.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	190	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	71.	1
2-Nitrophenol	ND		ug/kg	470	81.	1
4-Nitrophenol	ND		ug/kg	300	88.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-03 Date Collected: 10/19/21 14:10

Client ID: EP43_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	41.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	220	66.	1
Carbazole	ND		ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	32	9.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	56		30-120
2,4,6-Tribromophenol	54		10-136
4-Terphenyl-d14	54		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-03
Client ID: EP43_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:10
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/21/21 20:09
Analyst: MP
Percent Solids: 76%

Extraction Method: ALPHA 23528
Extraction Date: 10/20/21 10:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.647	0.029	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.647	0.060	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.323	0.050	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.647	0.068	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.323	0.058	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.323	0.078	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.323	0.054	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.647	0.232	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.647	0.176	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.323	0.097	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.323	0.168	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.323	0.087	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.647	0.371	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.647	0.261	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.647	0.061	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.647	0.198	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.647	0.127	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.647	0.109	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.647	0.091	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.647	0.264	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.647	0.070	1
PFOA/PFOS, Total	ND		ng/g	0.323	0.054	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-03 Date Collected: 10/19/21 14:10

Client ID: EP43_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	96		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	96		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	104		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	97		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	110		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	109		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	135		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	82		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	109		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	15		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	79		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	87		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-04
Client ID: EP34_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:15
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/21/21 03:27
Analyst: IM
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 09:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	73.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-04 Date Collected: 10/19/21 14:15

Client ID: EP34_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	87.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	79.	1
4-Nitrophenol	ND		ug/kg	300	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-04 Date Collected: 10/19/21 14:15

Client ID: EP34_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	65.	1
Carbazole	ND		ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	32	9.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	59		10-136
4-Terphenyl-d14	59		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-04
Client ID: EP34_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:15
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/21/21 20:26
Analyst: MP
Percent Solids: 77%

Extraction Method: ALPHA 23528
Extraction Date: 10/20/21 10:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.572	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.572	0.053	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.286	0.045	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.572	0.060	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.286	0.052	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.286	0.069	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.286	0.048	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.572	0.205	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.572	0.156	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.286	0.086	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.286	0.149	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.286	0.077	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.572	0.328	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.572	0.230	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.572	0.054	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.572	0.175	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.572	0.112	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.572	0.097	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.572	0.080	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.572	0.234	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.572	0.062	1
PFOA/PFOS, Total	ND		ng/g	0.286	0.048	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-04 Date Collected: 10/19/21 14:15

Client ID: EP34_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	96		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	103		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	95		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	97		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	103		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	101		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	112		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	114		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	102		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	141		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	83		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	109		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	14		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	87		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	97		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	92		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-05
Client ID: EP35_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:20
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/21/21 05:38
Analyst: IM
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 09:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	37.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	55.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	380		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	27.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	52.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	70.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-05 Date Collected: 10/19/21 14:20

Client ID: EP35_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	240		ug/kg	120	23.	1
Benzo(a)pyrene	210		ug/kg	160	50.	1
Benzo(b)fluoranthene	240		ug/kg	120	35.	1
Benzo(k)fluoranthene	110	J	ug/kg	120	33.	1
Chrysene	190		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	49	J	ug/kg	120	40.	1
Benzo(ghi)perylene	130	J	ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	190		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	31	J	ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	130	J	ug/kg	160	29.	1
Pyrene	350		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	40.	1
3-Nitroaniline	ND		ug/kg	200	39.	1
4-Nitroaniline	ND		ug/kg	200	85.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	31.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	68.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	990	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	99.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-05 Date Collected: 10/19/21 14:20

Client ID: EP35_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	200	63.	1
Carbazole	22	J	ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	31	9.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	53		30-120
2,4,6-Tribromophenol	53		10-136
4-Terphenyl-d14	50		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-05
Client ID: EP35_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:20
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/21/21 20:42
Analyst: MP
Percent Solids: 79%

Extraction Method: ALPHA 23528
Extraction Date: 10/20/21 10:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.615	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.615	0.057	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.308	0.048	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.615	0.065	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.308	0.056	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.308	0.074	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.308	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.615	0.221	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.615	0.168	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.308	0.092	1
Perfluorooctanesulfonic Acid (PFOS)	0.232	JF	ng/g	0.308	0.160	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.308	0.082	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.615	0.353	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.615	0.248	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.615	0.058	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.615	0.188	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.615	0.120	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.615	0.104	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.615	0.086	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.615	0.252	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.615	0.066	1
PFOA/PFOS, Total	0.232	J	ng/g	0.308	0.052	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-05 Date Collected: 10/19/21 14:20

Client ID: EP35_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	99		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	104		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	98		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	98		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	103		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	109		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	115		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	104		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	107		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	144		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	82		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	114		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	23		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	86		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	97		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	93		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-06
Client ID: EP33_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:25
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/21/21 02:00
Analyst: IM
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 09:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	37.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	27.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	52.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	70.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-06 Date Collected: 10/19/21 14:25

Client ID: EP33_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	40.	1
3-Nitroaniline	ND		ug/kg	200	39.	1
4-Nitroaniline	ND		ug/kg	200	85.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	68.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	980	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	98.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-06 Date Collected: 10/19/21 14:25

Client ID: EP33_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	210	1
Benzyl Alcohol	ND		ug/kg	200	63.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	31	9.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	70		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-06
Client ID: EP33_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:25
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/21/21 20:59
Analyst: MP
Percent Solids: 79%

Extraction Method: ALPHA 23528
Extraction Date: 10/20/21 10:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.585	0.027	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.585	0.054	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.292	0.046	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.585	0.061	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.292	0.053	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.292	0.071	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.292	0.049	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.585	0.210	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.585	0.160	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.292	0.088	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.292	0.152	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.292	0.078	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.585	0.336	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.585	0.236	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.585	0.055	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.585	0.179	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.585	0.115	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.585	0.099	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.585	0.082	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.585	0.239	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.585	0.063	1
PFOA/PFOS, Total	ND		ng/g	0.292	0.049	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-06 Date Collected: 10/19/21 14:25

Client ID: EP33_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	95		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	96		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	93		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	101		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	108		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	110		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	102		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	140		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	84		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	107		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	10		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	84		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	96		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	94		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-08
Client ID: FB02_101921
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 15:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/22/21 00:32
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 10/20/21 23:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	0.44	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Hexachlorobenzene	ND		ug/l	2.0	0.46	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
2-Chloronaphthalene	ND		ug/l	2.0	0.44	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
Fluoranthene	ND		ug/l	2.0	0.26	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorobutadiene	ND		ug/l	2.0	0.66	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Hexachloroethane	ND		ug/l	2.0	0.58	1
Isophorone	ND		ug/l	5.0	1.2	1
Naphthalene	ND		ug/l	2.0	0.46	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-08 Date Collected: 10/19/21 15:00

Client ID: FB02_101921 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Benzo(a)anthracene	ND		ug/l	2.0	0.32	1
Benzo(a)pyrene	ND		ug/l	2.0	0.41	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37	1
Chrysene	ND		ug/l	2.0	0.34	1
Acenaphthylene	ND		ug/l	2.0	0.46	1
Anthracene	ND		ug/l	2.0	0.33	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.30	1
Fluorene	ND		ug/l	2.0	0.41	1
Phenanthrene	ND		ug/l	2.0	0.33	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40	1
Pyrene	ND		ug/l	2.0	0.28	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
2-Methylnaphthalene	ND		ug/l	2.0	0.45	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Pentachlorophenol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-08 Date Collected: 10/19/21 15:00

Client ID: FB02_101921 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	31		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	33		23-120
2-Fluorobiphenyl	28		15-120
2,4,6-Tribromophenol	22		10-120
4-Terphenyl-d14	**28**	Q	41-149

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-08
Client ID: FB02_101921
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 15:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/25/21 14:54
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 10/22/21 16:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	134	30.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	43		15-110

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-08
Client ID: FB02_101921
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 15:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/21/21 21:48
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 10/20/21 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.76	0.359	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.76	0.348	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.76	0.209	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.76	0.288	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.76	0.198	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.76	0.331	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.76	0.208	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.76	1.17	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.76	0.605	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.76	0.274	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.76	0.443	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.76	0.267	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.76	1.06	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.76	0.570	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.76	0.229	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.76	0.862	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.76	0.510	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.76	0.707	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.76	0.327	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.76	0.288	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.76	0.218	1
PFOA/PFOS, Total	ND		ng/l	1.76	0.208	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-08 Date Collected: 10/19/21 15:00

Client ID: FB02_101921 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	97		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	103		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	98		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	99		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	101		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	101		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	116		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	106		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	101		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	129		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	77		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	100		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	32		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	79		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	87		22-136

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-09
Client ID: DUP01_101921
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 00:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/21/21 02:21
Analyst: IM
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 09:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	73.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-09 Date Collected: 10/19/21 00:00

Client ID: DUP01_101921 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	88.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	80.	1
4-Nitrophenol	ND		ug/kg	300	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-09 Date Collected: 10/19/21 00:00

Client ID: DUP01_101921 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	65.	1
Carbazole	ND		ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	32	9.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	52		30-120
2,4,6-Tribromophenol	49		10-136
4-Terphenyl-d14	45		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-09
Client ID: DUP01_101921
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 00:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/21/21 21:32
Analyst: MP
Percent Solids: 77%

Extraction Method: ALPHA 23528
Extraction Date: 10/20/21 10:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.605	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.605	0.056	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.303	0.047	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.605	0.064	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.303	0.055	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.303	0.073	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.303	0.051	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.605	0.217	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.605	0.165	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.303	0.091	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.303	0.157	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.303	0.081	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.605	0.348	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.605	0.244	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.605	0.057	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.605	0.185	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.605	0.102	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.605	0.085	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.605	0.248	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.605	0.065	1
PFOA/PFOS, Total	ND		ng/g	0.303	0.051	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-09 Date Collected: 10/19/21 00:00

Client ID: DUP01_101921 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	90		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	91		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	98		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	93		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	96		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	111		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	108		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	125		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	77		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	106		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	69		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	91		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	67		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-09
Client ID: DUP01_101921
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 00:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/22/21 02:34
Analyst: HT
Percent Solids: 77%

Extraction Method: ALPHA 23528
Extraction Date: 10/20/21 10:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.605	0.119	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	60		10-117

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/20/21 04:52
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/19/21 14:46

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,09 Batch: WG1560541-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/20/21 04:52
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/19/21 14:46

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,09 Batch: WG1560541-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/20/21 04:52
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/19/21 14:46

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,09 Batch: WG1560541-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	65		10-136
4-Terphenyl-d14	90		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/21/21 16:50
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 10/20/21 10:23

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-06,09 Batch: WG1560812-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/21/21 16:50
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 10/20/21 10:23

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-06,09 Batch: WG1560812-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	86		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	90		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	87		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	97		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	104		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	95		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	99		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	125		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	73		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	14		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	69		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	88		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	79		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/22/21 02:13
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 10/20/21 10:23

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-06,09 Batch: WG1560812-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	68		10-117

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/21/21 14:05
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 10/20/21 17:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 08 Batch: WG1561068-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 10/21/21 14:05
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 10/20/21 17:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 08 Batch: WG1561068-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	95		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	116		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	101		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	94		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	104		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	107		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	101		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	97		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	130		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	74		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	36		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	75		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	91		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	85		22-136

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/21/21 23:17
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 10/20/21 23:35

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1561215-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/21/21 23:17
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 10/20/21 23:35

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1561215-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/21/21 23:17
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 10/20/21 23:35

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1561215-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		21-120
Phenol-d6	63		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	71		41-149

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 10/23/21 15:14
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 10/22/21 16:29

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 08 Batch: WG1562099-1					
1,4-Dioxane	ND		ng/l	150	33.9

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	47		15-110

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,09 Batch: WG1560541-2 WG1560541-3								
Acenaphthene	68		74		31-137	8		50
1,2,4-Trichlorobenzene	64		70		38-107	9		50
Hexachlorobenzene	67		73		40-140	9		50
Bis(2-chloroethyl)ether	69		73		40-140	6		50
2-Chloronaphthalene	69		74		40-140	7		50
1,2-Dichlorobenzene	66		70		40-140	6		50
1,3-Dichlorobenzene	64		67		40-140	5		50
1,4-Dichlorobenzene	64		68		28-104	6		50
3,3'-Dichlorobenzidine	52		61		40-140	16		50
2,4-Dinitrotoluene	71		78		40-132	9		50
2,6-Dinitrotoluene	74		77		40-140	4		50
Fluoranthene	72		78		40-140	8		50
4-Chlorophenyl phenyl ether	67		73		40-140	9		50
4-Bromophenyl phenyl ether	68		74		40-140	8		50
Bis(2-chloroisopropyl)ether	77		81		40-140	5		50
Bis(2-chloroethoxy)methane	74		79		40-117	7		50
Hexachlorobutadiene	66		68		40-140	3		50
Hexachlorocyclopentadiene	60		62		40-140	3		50
Hexachloroethane	68		72		40-140	6		50
Isophorone	76		81		40-140	6		50
Naphthalene	69		72		40-140	4		50
Nitrobenzene	73		79		40-140	8		50
NDPA/DPA	71		77		36-157	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,09 Batch: WG1560541-2 WG1560541-3								
n-Nitrosodi-n-propylamine	76		80		32-121	5		50
Bis(2-ethylhexyl)phthalate	84		90		40-140	7		50
Butyl benzyl phthalate	84		90		40-140	7		50
Di-n-butylphthalate	81		87		40-140	7		50
Di-n-octylphthalate	84		88		40-140	5		50
Diethyl phthalate	71		78		40-140	9		50
Dimethyl phthalate	74		80		40-140	8		50
Benzo(a)anthracene	70		76		40-140	8		50
Benzo(a)pyrene	66		71		40-140	7		50
Benzo(b)fluoranthene	73		80		40-140	9		50
Benzo(k)fluoranthene	68		72		40-140	6		50
Chrysene	67		73		40-140	9		50
Acenaphthylene	70		75		40-140	7		50
Anthracene	69		73		40-140	6		50
Benzo(ghi)perylene	66		73		40-140	10		50
Fluorene	70		76		40-140	8		50
Phenanthrene	69		73		40-140	6		50
Dibenzo(a,h)anthracene	72		77		40-140	7		50
Indeno(1,2,3-cd)pyrene	69		70		40-140	1		50
Pyrene	71		76		35-142	7		50
Biphenyl	69		74		37-127	7		50
4-Chloroaniline	68		72		40-140	6		50
2-Nitroaniline	76		81		47-134	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,09 Batch: WG1560541-2 WG1560541-3								
3-Nitroaniline	58		65		26-129	11		50
4-Nitroaniline	67		73		41-125	9		50
Dibenzofuran	67		73		40-140	9		50
2-Methylnaphthalene	69		71		40-140	3		50
1,2,4,5-Tetrachlorobenzene	70		73		40-117	4		50
Acetophenone	71		75		14-144	5		50
2,4,6-Trichlorophenol	72		74		30-130	3		50
p-Chloro-m-cresol	76		82		26-103	8		50
2-Chlorophenol	72		78		25-102	8		50
2,4-Dichlorophenol	76		81		30-130	6		50
2,4-Dimethylphenol	78		85		30-130	9		50
2-Nitrophenol	74		77		30-130	4		50
4-Nitrophenol	70		80		11-114	13		50
2,4-Dinitrophenol	65		66		4-130	2		50
4,6-Dinitro-o-cresol	75		80		10-130	6		50
Pentachlorophenol	67		72		17-109	7		50
Phenol	77		83		26-90	8		50
2-Methylphenol	77		82		30-130.	6		50
3-Methylphenol/4-Methylphenol	80		87		30-130	8		50
2,4,5-Trichlorophenol	76		82		30-130	8		50
Benzoic Acid	20		14		10-110	35		50
Benzyl Alcohol	78		85		40-140	9		50
Carbazole	70		76		54-128	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,09 Batch: WG1560541-2 WG1560541-3								
1,4-Dioxane	44		44		40-140	0		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	71		74		25-120
Phenol-d6	75		80		10-120
Nitrobenzene-d5	72		77		23-120
2-Fluorobiphenyl	68		73		30-120
2,4,6-Tribromophenol	66		70		10-136
4-Terphenyl-d14	74		78		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06,09 Batch: WG1560812-2								
Perfluorobutanoic Acid (PFBA)	102		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	100		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	101		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	102		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	100		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	102		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	100		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	111		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	101		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	93		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	103		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	89		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	95		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	101		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	99		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	110		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	97		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	97		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	103		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	107		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	98		-		69-133	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06,09 Batch: WG1560812-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	93				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	103				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	111				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	102				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	126				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	78				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	106				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	13				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	77				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	84				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

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Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06,09 Batch: WG1560812-2								
Perfluorooctanesulfonamide (FOSA)	114		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	69				10-117

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 08 Batch: WG1561068-2								
Perfluorobutanoic Acid (PFBA)	101		-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	98		-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	101		-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	99		-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	99		-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	102		-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	102		-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	110		-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	97		-		61-179	-		30
Perfluorononanoic Acid (PFNA)	94		-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	102		-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	92		-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	92		-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	105		-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	99		-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	108		-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	97		-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	109		-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	101		-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	109		-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	96		-		59-182	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 08 Batch: WG1561068-2

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	114				62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	109				70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	100				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	101				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	107				71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	103				62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	113				14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	110				59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	109				69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	107				62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	137				10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	83				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	110				55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	35				10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	83				27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	101				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	101				22-136

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1561215-2 WG1561215-3								
Acenaphthene	69		86		37-111	22		30
1,2,4-Trichlorobenzene	63		79		39-98	23		30
Hexachlorobenzene	56		66		40-140	16		30
Bis(2-chloroethyl)ether	75		84		40-140	11		30
2-Chloronaphthalene	68		81		40-140	17		30
1,2-Dichlorobenzene	68		78		40-140	14		30
1,3-Dichlorobenzene	66		78		40-140	17		30
1,4-Dichlorobenzene	68		79		36-97	15		30
3,3'-Dichlorobenzidine	52		67		40-140	25		30
2,4-Dinitrotoluene	70		89		48-143	24		30
2,6-Dinitrotoluene	81		98		40-140	19		30
Fluoranthene	71		89		40-140	23		30
4-Chlorophenyl phenyl ether	68		81		40-140	17		30
4-Bromophenyl phenyl ether	65		76		40-140	16		30
Bis(2-chloroisopropyl)ether	114		137		40-140	18		30
Bis(2-chloroethoxy)methane	73		87		40-140	18		30
Hexachlorobutadiene	63		77		40-140	20		30
Hexachlorocyclopentadiene	54		72		40-140	29		30
Hexachloroethane	65		79		40-140	19		30
Isophorone	71		86		40-140	19		30
Naphthalene	71		82		40-140	14		30
Nitrobenzene	95		113		40-140	17		30
NDPA/DPA	72		91		40-140	23		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1561215-2 WG1561215-3								
n-Nitrosodi-n-propylamine	76		95		29-132	22		30
Bis(2-ethylhexyl)phthalate	86		110		40-140	24		30
Butyl benzyl phthalate	79		105		40-140	28		30
Di-n-butylphthalate	71		92		40-140	26		30
Di-n-octylphthalate	89		118		40-140	28		30
Diethyl phthalate	80		97		40-140	19		30
Dimethyl phthalate	67		81		40-140	19		30
Benzo(a)anthracene	79		97		40-140	20		30
Benzo(a)pyrene	74		96		40-140	26		30
Benzo(b)fluoranthene	72		101		40-140	**34**	Q	30
Benzo(k)fluoranthene	70		86		40-140	21		30
Chrysene	70		91		40-140	26		30
Acenaphthylene	72		90		45-123	22		30
Anthracene	70		92		40-140	27		30
Benzo(ghi)perylene	75		99		40-140	28		30
Fluorene	73		87		40-140	18		30
Phenanthrene	70		89		40-140	24		30
Dibenzo(a,h)anthracene	68		88		40-140	26		30
Indeno(1,2,3-cd)pyrene	69		84		40-140	20		30
Pyrene	69		86		26-127	22		30
Biphenyl	70		83		40-140	17		30
4-Chloroaniline	62		79		40-140	24		30
2-Nitroaniline	71		91		52-143	25		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1561215-2 WG1561215-3								
3-Nitroaniline	70		89		25-145	24		30
4-Nitroaniline	77		99		51-143	25		30
Dibenzofuran	66		83		40-140	23		30
2-Methylnaphthalene	94		113		40-140	18		30
1,2,4,5-Tetrachlorobenzene	64		78		2-134	20		30
Acetophenone	76		92		39-129	19		30
2,4,6-Trichlorophenol	67		85		30-130	24		30
p-Chloro-m-cresol	76		92		23-97	19		30
2-Chlorophenol	71		87		27-123	20		30
2,4-Dichlorophenol	68		85		30-130	22		30
2,4-Dimethylphenol	68		84		30-130	21		30
2-Nitrophenol	68		87		30-130	25		30
4-Nitrophenol	**84**	Q	**106**	Q	10-80	23		30
2,4-Dinitrophenol	54		71		20-130	27		30
4,6-Dinitro-o-cresol	80		94		20-164	16		30
Pentachlorophenol	59		67		9-103	13		30
Phenol	61		74		12-110	19		30
2-Methylphenol	68		84		30-130	21		30
3-Methylphenol/4-Methylphenol	70		84		30-130	18		30
2,4,5-Trichlorophenol	72		86		30-130	18		30
Benzoic Acid	80		78		10-164	3		30
Benzyl Alcohol	66		81		26-116	20		30
Carbazole	72		92		55-144	24		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1561215-2 WG1561215-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	63		73		21-120
Phenol-d6	58		70		10-120
Nitrobenzene-d5	69		81		23-120
2-Fluorobiphenyl	61		71		15-120
2,4,6-Tribromophenol	57		69		10-120
4-Terphenyl-d14	57		70		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 08 Batch: WG1562099-2 WG1562099-3								
1,4-Dioxane	112		113		40-140	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	44		28		15-110

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06,09 QC Batch ID: WG1560812-3 WG1560812-4 QC Sample: L2156976-01 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	4.97	5.12	103		5.14	102		71-135	0		30
Perfluoropentanoic Acid (PFPeA)	ND	4.97	5.03	101		5.10	101		69-132	1		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.41	4.62	105		4.68	104		72-128	1		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	4.65	4.70	101		4.88	103		62-145	4		30
Perfluorohexanoic Acid (PFHxA)	ND	4.97	5.00	101		5.09	101		70-132	2		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	4.67	5.02	107		5.21	110		73-123	4		30
Perfluoroheptanoic Acid (PFHpA)	ND	4.97	4.97	100		5.07	100		71-131	2		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.54	4.70	103		4.79	104		67-130	2		30
Perfluorooctanoic Acid (PFOA)	ND	4.97	4.90	99		5.21	103		69-133	6		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.73	5.33	113		5.30	110		64-140	1		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.73	4.79	101		4.97	103		70-132	4		30
Perfluorononanoic Acid (PFNA)	ND	4.97	4.86	98		4.76	94		72-129	2		30
Perfluorooctanesulfonic Acid (PFOS)	ND	4.61	4.93	107		4.82	103		68-136	2		30
Perfluorodecanoic Acid (PFDA)	ND	4.97	4.59	92		4.56	90		69-133	1		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.77	4.64	97		4.34	89		65-137	7		30
Perfluorononanesulfonic Acid (PFNS)	ND	4.78	4.59	96		4.84	100		69-125	5		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	4.97	5.51	111		5.17	102		63-144	6		30
Perfluoroundecanoic Acid (PFUnA)	ND	4.97	4.96	100		4.94	98		64-136	0		30
Perfluorodecanesulfonic Acid (PFDS)	ND	4.79	4.56	95		4.81	99		59-134	5		30
Perfluorooctanesulfonamide (FOSA)	ND	4.97	4.83	97		4.89	97		67-137	1		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	4.97	5.03	101		5.13	101		61-139	2		30
Perfluorododecanoic Acid (PFDoA)	ND	4.97	5.18	104		5.43	107		69-135	5		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06,09 QC Batch ID: WG1560812-3 WG1560812-4 QC Sample: L2156976-01 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	4.97	5.26	106		5.13	101		66-139	3		30
Perfluorotetradecanoic Acid (PFTA)	ND	4.97	4.89	98		4.98	99		69-133	2		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	98		97		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	75		74		14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	83		81		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	39		34		34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	37		37		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	77		73		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	76		**73**	Q	75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	68		**65**	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	71		**68**	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	80		79		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	66		60		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	44		39		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	67		62		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	67		62		58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	13		10		10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	79		**77**	Q	79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	75		**71**	Q	75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	82		82		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	81		79		74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06,09 QC Batch ID: WG1560812-5 WG1560812-6 QC Sample: L2156976-03 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	4.9	4.93	101		4.80	101		71-135	3		30
Perfluoropentanoic Acid (PFPeA)	ND	4.9	4.91	100		4.75	100		69-132	3		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.35	4.52	104		4.29	102		72-128	5		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	4.59	4.81	105		4.38	99		62-145	9		30
Perfluorohexanoic Acid (PFHxA)	ND	4.9	4.86	99		4.77	101		70-132	2		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	4.61	4.82	105		4.91	110		73-123	2		30
Perfluoroheptanoic Acid (PFHpA)	ND	4.9	4.87	99		4.74	100		71-131	3		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.48	4.47	100		4.43	102		67-130	1		30
Perfluorooctanoic Acid (PFOA)	ND	4.9	4.94	101		4.70	99		69-133	5		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.67	5.09	109		4.79	106		64-140	6		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.67	4.42	95		4.38	97		70-132	1		30
Perfluorononanoic Acid (PFNA)	ND	4.9	4.62	94		4.56	96		72-129	1		30
Perfluorooctanesulfonic Acid (PFOS)	ND	4.55	4.61	101		4.42	101		68-136	4		30
Perfluorodecanoic Acid (PFDA)	ND	4.9	4.50	92		4.45	94		69-133	1		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.7	4.60	98		4.21	93		65-137	9		30
Perfluorononanesulfonic Acid (PFNS)	ND	4.72	4.74	101		4.51	99		69-125	5		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	4.9	4.74	97		5.02	106		63-144	6		30
Perfluoroundecanoic Acid (PFUnA)	ND	4.9	4.85	99		4.48	95		64-136	8		30
Perfluorodecanesulfonic Acid (PFDS)	ND	4.72	5.11	108		4.70	103		59-134	8		30
Perfluorooctanesulfonamide (FOSA)	ND	4.9	4.70F	96		4.75	100		67-137	1		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	4.9	4.72	96		4.73	100		61-139	0		30
Perfluorododecanoic Acid (PFDoA)	ND	4.9	5.02	102		4.98	105		69-135	1		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06,09 QC Batch ID: WG1560812-5 WG1560812-6 QC Sample: L2156976-03 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	4.9	5.28	108		5.09	108		66-139	4		30
Perfluorotetradecanoic Acid (PFTA)	ND	4.9	4.80	98		4.79	101		69-133	0		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	128		121		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	91		89		14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	105		102		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	54		46		34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**29**	Q	**26**	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	111		111		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	106		102		75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	97		91		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	99		93		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	109		96		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	100		97		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	94		89		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	96		90		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	96		89		58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	13		10		10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108		103		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	103		97		75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	117		112		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	107		100		74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 08 QC Batch ID: WG1561068-3 WG1561068-4 QC Sample: L2156524-03 Client ID: MS Sample												
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	10.1	36	47.2	103		49.3	110		49-187	4		30

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**179**	Q	**176**	Q	14-147

PCBS

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-01
Client ID: EP42_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/21/21 12:55
Analyst: JM
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 06:17
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.9	3.81	1	A
Aroclor 1221	ND		ug/kg	42.9	4.30	1	A
Aroclor 1232	ND		ug/kg	42.9	9.10	1	A
Aroclor 1242	ND		ug/kg	42.9	5.79	1	A
Aroclor 1248	ND		ug/kg	42.9	6.44	1	A
Aroclor 1254	ND		ug/kg	42.9	4.70	1	A
Aroclor 1260	ND		ug/kg	42.9	7.93	1	A
Aroclor 1262	ND		ug/kg	42.9	5.45	1	A
Aroclor 1268	ND		ug/kg	42.9	4.45	1	A
PCBs, Total	ND		ug/kg	42.9	3.81	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-02
Client ID: EP41_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:05
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/21/21 13:02
Analyst: JM
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 06:17
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.7	3.79	1	A
Aroclor 1221	ND		ug/kg	42.7	4.28	1	A
Aroclor 1232	ND		ug/kg	42.7	9.05	1	A
Aroclor 1242	ND		ug/kg	42.7	5.75	1	A
Aroclor 1248	ND		ug/kg	42.7	6.40	1	A
Aroclor 1254	ND		ug/kg	42.7	4.67	1	A
Aroclor 1260	ND		ug/kg	42.7	7.89	1	A
Aroclor 1262	ND		ug/kg	42.7	5.42	1	A
Aroclor 1268	ND		ug/kg	42.7	4.42	1	A
PCBs, Total	ND		ug/kg	42.7	3.79	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	88		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-03
Client ID: EP43_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:10
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/21/21 13:09
Analyst: JM
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 06:17
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.6	3.70	1	A
Aroclor 1221	ND		ug/kg	41.6	4.17	1	A
Aroclor 1232	ND		ug/kg	41.6	8.82	1	A
Aroclor 1242	ND		ug/kg	41.6	5.61	1	A
Aroclor 1248	ND		ug/kg	41.6	6.24	1	A
Aroclor 1254	ND		ug/kg	41.6	4.55	1	A
Aroclor 1260	ND		ug/kg	41.6	7.69	1	A
Aroclor 1262	ND		ug/kg	41.6	5.28	1	A
Aroclor 1268	ND		ug/kg	41.6	4.31	1	A
PCBs, Total	ND		ug/kg	41.6	3.70	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	99		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-04
Client ID: EP34_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:15
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/21/21 13:23
Analyst: JM
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 06:17
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.7	3.70	1	A
Aroclor 1221	ND		ug/kg	41.7	4.18	1	A
Aroclor 1232	ND		ug/kg	41.7	8.85	1	A
Aroclor 1242	ND		ug/kg	41.7	5.62	1	A
Aroclor 1248	ND		ug/kg	41.7	6.26	1	A
Aroclor 1254	ND		ug/kg	41.7	4.56	1	A
Aroclor 1260	ND		ug/kg	41.7	7.71	1	A
Aroclor 1262	ND		ug/kg	41.7	5.30	1	A
Aroclor 1268	ND		ug/kg	41.7	4.32	1	A
PCBs, Total	ND		ug/kg	41.7	3.70	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	102		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-05
Client ID: EP35_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:20
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/21/21 13:16
Analyst: JM
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 06:17
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.6	3.69	1	A
Aroclor 1221	ND		ug/kg	41.6	4.16	1	A
Aroclor 1232	ND		ug/kg	41.6	8.81	1	A
Aroclor 1242	ND		ug/kg	41.6	5.60	1	A
Aroclor 1248	ND		ug/kg	41.6	6.23	1	A
Aroclor 1254	ND		ug/kg	41.6	4.55	1	A
Aroclor 1260	ND		ug/kg	41.6	7.68	1	A
Aroclor 1262	ND		ug/kg	41.6	5.28	1	A
Aroclor 1268	ND		ug/kg	41.6	4.30	1	A
PCBs, Total	ND		ug/kg	41.6	3.69	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	102		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	93		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-06
Client ID: EP33_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:25
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/21/21 13:30
Analyst: JM
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 06:17
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.6	3.61	1	A
Aroclor 1221	ND		ug/kg	40.6	4.07	1	A
Aroclor 1232	ND		ug/kg	40.6	8.62	1	A
Aroclor 1242	ND		ug/kg	40.6	5.48	1	A
Aroclor 1248	ND		ug/kg	40.6	6.10	1	A
Aroclor 1254	ND		ug/kg	40.6	4.45	1	A
Aroclor 1260	ND		ug/kg	40.6	7.51	1	A
Aroclor 1262	ND		ug/kg	40.6	5.16	1	A
Aroclor 1268	ND		ug/kg	40.6	4.21	1	A
PCBs, Total	ND		ug/kg	40.6	3.61	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	99		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	92		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-08
Client ID: FB02_101921
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 15:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 10/26/21 09:39
Analyst: JM

Extraction Method: EPA 3510C
Extraction Date: 10/25/21 12:43
Cleanup Method: EPA 3665A
Cleanup Date: 10/25/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/25/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-09
Client ID: DUP01_101921
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 00:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/21/21 13:38
Analyst: JM
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 06:17
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.9	3.72	1	A
Aroclor 1221	ND		ug/kg	41.9	4.20	1	A
Aroclor 1232	ND		ug/kg	41.9	8.89	1	A
Aroclor 1242	ND		ug/kg	41.9	5.65	1	A
Aroclor 1248	ND		ug/kg	41.9	6.29	1	A
Aroclor 1254	ND		ug/kg	41.9	4.59	1	A
Aroclor 1260	ND		ug/kg	41.9	7.75	1	A
Aroclor 1262	ND		ug/kg	41.9	5.32	1	A
Aroclor 1268	ND		ug/kg	41.9	4.34	1	A
PCBs, Total	ND		ug/kg	41.9	3.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	107		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	97		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/20/21 12:37
Analyst: CW

Extraction Method: EPA 3546
Extraction Date: 10/20/21 00:36
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-06,09 Batch: WG1560730-1						
Aroclor 1016	ND		ug/kg	32.3	2.87	A
Aroclor 1221	ND		ug/kg	32.3	3.24	A
Aroclor 1232	ND		ug/kg	32.3	6.85	A
Aroclor 1242	ND		ug/kg	32.3	4.35	A
Aroclor 1248	ND		ug/kg	32.3	4.84	A
Aroclor 1254	ND		ug/kg	32.3	3.53	A
Aroclor 1260	ND		ug/kg	32.3	5.97	A
Aroclor 1262	ND		ug/kg	32.3	4.10	A
Aroclor 1268	ND		ug/kg	32.3	3.35	A
PCBs, Total	ND		ug/kg	32.3	2.87	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/26/21 03:10
Analyst: JM

Extraction Method: EPA 3510C
Extraction Date: 10/25/21 04:57
Cleanup Method: EPA 3665A
Cleanup Date: 10/25/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/25/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 08 Batch: WG1563273-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	0.091		ug/l	0.071	0.061	A
PCBs, Total	0.091		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	62		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-06,09 Batch: WG1560730-2 WG1560730-3									
Aroclor 1016	87		88		40-140	1		50	A
Aroclor 1260	97		97		40-140	0		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		78		30-150	A
Decachlorobiphenyl	96		96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		77		30-150	B
Decachlorobiphenyl	87		88		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 08 Batch: WG1563273-2 WG1563273-3									
Aroclor 1016	75		73		40-140	2		50	A
Aroclor 1260	73		71		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		69		30-150	A
Decachlorobiphenyl	74		73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		64		30-150	B
Decachlorobiphenyl	70		67		30-150	B

PESTICIDES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-01
Client ID: EP42_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/21/21 15:29
Analyst: JAW
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 06:37
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.05	0.401	1	A
Lindane	ND		ug/kg	0.852	0.381	1	A
Alpha-BHC	ND		ug/kg	0.852	0.242	1	A
Beta-BHC	ND		ug/kg	2.05	0.776	1	A
Heptachlor	ND		ug/kg	1.02	0.459	1	A
Aldrin	ND		ug/kg	2.05	0.720	1	A
Heptachlor epoxide	ND		ug/kg	3.84	1.15	1	A
Endrin	ND		ug/kg	0.852	0.350	1	A
Endrin aldehyde	ND		ug/kg	2.56	0.895	1	A
Endrin ketone	ND		ug/kg	2.05	0.527	1	A
Dieldrin	ND		ug/kg	1.28	0.639	1	A
4,4'-DDE	ND		ug/kg	2.05	0.473	1	A
4,4'-DDD	ND		ug/kg	2.05	0.730	1	A
4,4'-DDT	ND		ug/kg	3.84	1.64	1	A
Endosulfan I	ND		ug/kg	2.05	0.483	1	A
Endosulfan II	ND		ug/kg	2.05	0.684	1	A
Endosulfan sulfate	ND		ug/kg	0.852	0.406	1	A
Methoxychlor	ND		ug/kg	3.84	1.19	1	A
Toxaphene	ND		ug/kg	38.4	10.7	1	A
cis-Chlordane	ND		ug/kg	2.56	0.713	1	A
trans-Chlordane	ND		ug/kg	2.56	0.675	1	A
Chlordane	ND		ug/kg	17.0	6.78	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-01 Date Collected: 10/19/21 14:00

Client ID: EP42_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	**197**	Q	30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-01
Client ID: EP42_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/21/21 15:50
Analyst: AR
Percent Solids: 74%
Methylation Date: 10/21/21 12:35

Extraction Method: EPA 8151A
Extraction Date: 10/20/21 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	223	14.1	1	A
2,4,5-T	ND		ug/kg	223	6.93	1	A
2,4,5-TP (Silvex)	ND		ug/kg	223	5.94	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	67		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-02
Client ID: EP41_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:05
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/21/21 15:40
Analyst: JAW
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 08:47
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.05	0.401	1	A
Lindane	ND		ug/kg	0.853	0.381	1	A
Alpha-BHC	ND		ug/kg	0.853	0.242	1	A
Beta-BHC	ND		ug/kg	2.05	0.776	1	A
Heptachlor	ND		ug/kg	1.02	0.459	1	A
Aldrin	ND		ug/kg	2.05	0.720	1	A
Heptachlor epoxide	ND		ug/kg	3.84	1.15	1	A
Endrin	ND		ug/kg	0.853	0.350	1	A
Endrin aldehyde	ND		ug/kg	2.56	0.895	1	A
Endrin ketone	ND		ug/kg	2.05	0.527	1	A
Dieldrin	ND		ug/kg	1.28	0.640	1	A
4,4'-DDE	ND		ug/kg	2.05	0.473	1	A
4,4'-DDD	ND		ug/kg	2.05	0.730	1	A
4,4'-DDT	ND		ug/kg	3.84	1.64	1	A
Endosulfan I	ND		ug/kg	2.05	0.483	1	A
Endosulfan II	ND		ug/kg	2.05	0.684	1	A
Endosulfan sulfate	ND		ug/kg	0.853	0.406	1	A
Methoxychlor	ND		ug/kg	3.84	1.19	1	A
Toxaphene	ND		ug/kg	38.4	10.7	1	A
cis-Chlordane	ND		ug/kg	2.56	0.713	1	A
trans-Chlordane	ND		ug/kg	2.56	0.675	1	A
Chlordane	ND		ug/kg	17.0	6.78	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-02 Date Collected: 10/19/21 14:05

Client ID: EP41_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-02
Client ID: EP41_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:05
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/21/21 16:08
Analyst: AR
Percent Solids: 76%
Methylation Date: 10/21/21 12:35

Extraction Method: EPA 8151A
Extraction Date: 10/20/21 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	216	13.6	1	A
2,4,5-T	ND		ug/kg	216	6.69	1	A
2,4,5-TP (Silvex)	ND		ug/kg	216	5.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	80		30-150	A
DCAA	67		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-03
Client ID: EP43_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:10
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/22/21 15:00
Analyst: AR
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 06:37
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.00	0.392	1	A
Lindane	ND		ug/kg	0.835	0.373	1	A
Alpha-BHC	ND		ug/kg	0.835	0.237	1	A
Beta-BHC	ND		ug/kg	2.00	0.760	1	A
Heptachlor	ND		ug/kg	1.00	0.449	1	A
Aldrin	ND		ug/kg	2.00	0.706	1	A
Heptachlor epoxide	ND		ug/kg	3.76	1.13	1	A
Endrin	ND		ug/kg	0.835	0.342	1	A
Endrin aldehyde	ND		ug/kg	2.50	0.877	1	A
Endrin ketone	ND		ug/kg	2.00	0.516	1	A
Dieldrin	ND		ug/kg	1.25	0.626	1	A
4,4'-DDE	ND		ug/kg	2.00	0.463	1	A
4,4'-DDD	ND		ug/kg	2.00	0.715	1	A
4,4'-DDT	ND		ug/kg	3.76	1.61	1	A
Endosulfan I	ND		ug/kg	2.00	0.473	1	A
Endosulfan II	ND		ug/kg	2.00	0.670	1	A
Endosulfan sulfate	ND		ug/kg	0.835	0.397	1	A
Methoxychlor	ND		ug/kg	3.76	1.17	1	A
Toxaphene	ND		ug/kg	37.6	10.5	1	A
cis-Chlordane	ND		ug/kg	2.50	0.698	1	A
trans-Chlordane	ND		ug/kg	2.50	0.661	1	A
Chlordane	ND		ug/kg	16.7	6.64	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-03 Date Collected: 10/19/21 14:10

Client ID: EP43_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	108		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	99		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-03
Client ID: EP43_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:10
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/21/21 16:26
Analyst: AR
Percent Solids: 76%
Methylation Date: 10/21/21 12:35

Extraction Method: EPA 8151A
Extraction Date: 10/20/21 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	218	13.7	1	A
2,4,5-T	ND		ug/kg	218	6.76	1	A
2,4,5-TP (Silvex)	ND		ug/kg	218	5.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	78		30-150	A
DCAA	65		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-04
Client ID: EP34_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:15
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/22/21 15:11
Analyst: AR
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 08:47
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.05	0.401	1	A
Lindane	ND		ug/kg	0.854	0.382	1	A
Alpha-BHC	ND		ug/kg	0.854	0.242	1	A
Beta-BHC	ND		ug/kg	2.05	0.777	1	A
Heptachlor	ND		ug/kg	1.02	0.459	1	A
Aldrin	ND		ug/kg	2.05	0.722	1	A
Heptachlor epoxide	ND		ug/kg	3.84	1.15	1	A
Endrin	ND		ug/kg	0.854	0.350	1	A
Endrin aldehyde	ND		ug/kg	2.56	0.897	1	A
Endrin ketone	ND		ug/kg	2.05	0.528	1	A
Dieldrin	ND		ug/kg	1.28	0.640	1	A
4,4'-DDE	ND		ug/kg	2.05	0.474	1	A
4,4'-DDD	ND		ug/kg	2.05	0.731	1	A
4,4'-DDT	ND		ug/kg	3.84	1.65	1	A
Endosulfan I	ND		ug/kg	2.05	0.484	1	A
Endosulfan II	ND		ug/kg	2.05	0.685	1	A
Endosulfan sulfate	ND		ug/kg	0.854	0.406	1	A
Methoxychlor	ND		ug/kg	3.84	1.20	1	A
Toxaphene	ND		ug/kg	38.4	10.8	1	A
cis-Chlordane	ND		ug/kg	2.56	0.714	1	A
trans-Chlordane	ND		ug/kg	2.56	0.676	1	A
Chlordane	ND		ug/kg	17.1	6.79	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-04 Date Collected: 10/19/21 14:15

Client ID: EP34_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-04
Client ID: EP34_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:15
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/21/21 16:45
Analyst: AR
Percent Solids: 77%
Methylation Date: 10/21/21 12:35

Extraction Method: EPA 8151A
Extraction Date: 10/20/21 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	212	13.4	1	A
2,4,5-T	ND		ug/kg	212	6.58	1	A
2,4,5-TP (Silvex)	ND		ug/kg	212	5.65	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	66		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-05
Client ID: EP35_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:20
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/22/21 15:22
Analyst: AR
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 06:37
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.92	0.376	1	A
Lindane	ND		ug/kg	0.801	0.358	1	A
Alpha-BHC	ND		ug/kg	0.801	0.227	1	A
Beta-BHC	ND		ug/kg	1.92	0.728	1	A
Heptachlor	ND		ug/kg	0.961	0.431	1	A
Aldrin	ND		ug/kg	1.92	0.676	1	A
Heptachlor epoxide	ND		ug/kg	3.60	1.08	1	A
Endrin	ND		ug/kg	0.801	0.328	1	A
Endrin aldehyde	ND		ug/kg	2.40	0.841	1	A
Endrin ketone	ND		ug/kg	1.92	0.495	1	A
Dieldrin	ND		ug/kg	1.20	0.600	1	A
4,4'-DDE	0.513	JIP	ug/kg	1.92	0.444	1	B
4,4'-DDD	ND		ug/kg	1.92	0.685	1	B
4,4'-DDT	ND		ug/kg	3.60	1.54	1	A
Endosulfan I	ND		ug/kg	1.92	0.454	1	A
Endosulfan II	ND		ug/kg	1.92	0.642	1	A
Endosulfan sulfate	ND		ug/kg	0.801	0.381	1	A
Methoxychlor	ND		ug/kg	3.60	1.12	1	A
Toxaphene	ND		ug/kg	36.0	10.1	1	A
cis-Chlordane	ND		ug/kg	2.40	0.669	1	A
trans-Chlordane	ND	IP	ug/kg	2.40	0.634	1	B
Chlordane	ND		ug/kg	16.0	6.36	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-05 Date Collected: 10/19/21 14:20

Client ID: EP35_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	97		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-05
Client ID: EP35_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:20
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/21/21 17:03
Analyst: AR
Percent Solids: 79%
Methylation Date: 10/21/21 12:35

Extraction Method: EPA 8151A
Extraction Date: 10/20/21 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	204	12.9	1	A
2,4,5-T	ND		ug/kg	204	6.33	1	A
2,4,5-TP (Silvex)	ND		ug/kg	204	5.43	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	75		30-150	A
DCAA	67		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-06
Client ID: EP33_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:25
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/22/21 15:33
Analyst: AR
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 06:37
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.97	0.385	1	A
Lindane	ND		ug/kg	0.819	0.366	1	A
Alpha-BHC	ND		ug/kg	0.819	0.233	1	A
Beta-BHC	ND		ug/kg	1.97	0.746	1	A
Heptachlor	ND		ug/kg	0.983	0.441	1	A
Aldrin	ND		ug/kg	1.97	0.692	1	A
Heptachlor epoxide	ND		ug/kg	3.69	1.11	1	A
Endrin	ND		ug/kg	0.819	0.336	1	A
Endrin aldehyde	ND		ug/kg	2.46	0.860	1	A
Endrin ketone	ND		ug/kg	1.97	0.506	1	A
Dieldrin	ND		ug/kg	1.23	0.614	1	A
4,4'-DDE	ND		ug/kg	1.97	0.455	1	A
4,4'-DDD	ND		ug/kg	1.97	0.701	1	A
4,4'-DDT	ND		ug/kg	3.69	1.58	1	A
Endosulfan I	ND		ug/kg	1.97	0.464	1	A
Endosulfan II	ND		ug/kg	1.97	0.657	1	A
Endosulfan sulfate	ND		ug/kg	0.819	0.390	1	A
Methoxychlor	ND		ug/kg	3.69	1.15	1	A
Toxaphene	ND		ug/kg	36.9	10.3	1	A
cis-Chlordane	ND		ug/kg	2.46	0.685	1	A
trans-Chlordane	ND		ug/kg	2.46	0.649	1	A
Chlordane	ND		ug/kg	16.4	6.51	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-06 Date Collected: 10/19/21 14:25

Client ID: EP33_ -3 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	101		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-06
Client ID: EP33_ -3
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:25
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/21/21 17:21
Analyst: AR
Percent Solids: 79%
Methylation Date: 10/21/21 12:35

Extraction Method: EPA 8151A
Extraction Date: 10/20/21 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	206	13.0	1	A
2,4,5-T	ND		ug/kg	206	6.39	1	A
2,4,5-TP (Silvex)	ND		ug/kg	206	5.48	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	82		30-150	A
DCAA	69		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-07
Client ID: EP53_ -4
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:30
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/20/21 13:51
Analyst: AR
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 08:47
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.02	0.396	1	A
Lindane	ND		ug/kg	0.843	0.377	1	A
Alpha-BHC	ND		ug/kg	0.843	0.239	1	A
Beta-BHC	ND		ug/kg	2.02	0.767	1	A
Heptachlor	ND		ug/kg	1.01	0.453	1	A
Aldrin	ND		ug/kg	2.02	0.712	1	A
Heptachlor epoxide	ND		ug/kg	3.79	1.14	1	A
Endrin	ND		ug/kg	0.843	0.346	1	A
Endrin aldehyde	ND		ug/kg	2.53	0.885	1	A
Endrin ketone	ND		ug/kg	2.02	0.521	1	A
Dieldrin	ND		ug/kg	1.26	0.632	1	A
4,4'-DDE	ND		ug/kg	2.02	0.468	1	A
4,4'-DDD	ND		ug/kg	2.02	0.721	1	A
4,4'-DDT	ND		ug/kg	3.79	1.63	1	A
Endosulfan I	ND		ug/kg	2.02	0.478	1	A
Endosulfan II	ND		ug/kg	2.02	0.676	1	A
Endosulfan sulfate	ND		ug/kg	0.843	0.401	1	A
Methoxychlor	ND		ug/kg	3.79	1.18	1	A
Toxaphene	ND		ug/kg	37.9	10.6	1	A
cis-Chlordane	ND		ug/kg	2.53	0.704	1	A
trans-Chlordane	ND		ug/kg	2.53	0.667	1	A
Chlordane	ND		ug/kg	16.8	6.70	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-07 Date Collected: 10/19/21 14:30

Client ID: EP53_ -4 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	94		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-08
Client ID: FB02_101921
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 15:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 10/22/21 16:42
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 10/21/21 16:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-08 Date Collected: 10/19/21 15:00

Client ID: FB02_101921 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-08
Client ID: FB02_101921
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 15:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 10/21/21 13:03
Analyst: AR

Extraction Method: EPA 8151A
Extraction Date: 10/20/21 13:46

Methylation Date: 10/21/21 11:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	85		30-150	A
DCAA	75		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-09
Client ID: DUP01_101921
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 00:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/22/21 15:44
Analyst: AR
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 10/20/21 08:47
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.04	0.400	1	A
Lindane	ND		ug/kg	0.851	0.380	1	A
Alpha-BHC	ND		ug/kg	0.851	0.242	1	A
Beta-BHC	ND		ug/kg	2.04	0.774	1	A
Heptachlor	ND		ug/kg	1.02	0.458	1	A
Aldrin	ND		ug/kg	2.04	0.719	1	A
Heptachlor epoxide	ND		ug/kg	3.83	1.15	1	A
Endrin	ND		ug/kg	0.851	0.349	1	A
Endrin aldehyde	ND		ug/kg	2.55	0.894	1	A
Endrin ketone	ND		ug/kg	2.04	0.526	1	A
Dieldrin	ND		ug/kg	1.28	0.638	1	A
4,4'-DDE	ND		ug/kg	2.04	0.472	1	A
4,4'-DDD	ND		ug/kg	2.04	0.728	1	A
4,4'-DDT	ND		ug/kg	3.83	1.64	1	A
Endosulfan I	ND		ug/kg	2.04	0.482	1	A
Endosulfan II	ND		ug/kg	2.04	0.682	1	A
Endosulfan sulfate	ND		ug/kg	0.851	0.405	1	A
Methoxychlor	ND		ug/kg	3.83	1.19	1	A
Toxaphene	ND		ug/kg	38.3	10.7	1	A
cis-Chlordane	ND		ug/kg	2.55	0.711	1	A
trans-Chlordane	ND		ug/kg	2.55	0.674	1	A
Chlordane	ND		ug/kg	17.0	6.76	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-09 Date Collected: 10/19/21 00:00

Client ID: DUP01_101921 Date Received: 10/19/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	102		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	98		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-09
Client ID: DUP01_101921
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 00:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/21/21 17:40
Analyst: AR
Percent Solids: 77%
Methylation Date: 10/21/21 12:35

Extraction Method: EPA 8151A
Extraction Date: 10/20/21 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	213	13.4	1	A
2,4,5-T	ND		ug/kg	213	6.61	1	A
2,4,5-TP (Silvex)	ND		ug/kg	213	5.67	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	75		30-150	A
DCAA	69		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/20/21 13:18
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 10/20/21 06:37
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-07,09 Batch: WG1560796-1						
Delta-BHC	ND		ug/kg	1.57	0.307	A
Lindane	ND		ug/kg	0.654	0.292	A
Alpha-BHC	ND		ug/kg	0.654	0.186	A
Beta-BHC	ND		ug/kg	1.57	0.595	A
Heptachlor	ND		ug/kg	0.784	0.352	A
Aldrin	ND		ug/kg	1.57	0.552	A
Heptachlor epoxide	ND		ug/kg	2.94	0.882	A
Endrin	ND		ug/kg	0.654	0.268	A
Endrin aldehyde	ND		ug/kg	1.96	0.686	A
Endrin ketone	ND		ug/kg	1.57	0.404	A
Dieldrin	ND		ug/kg	0.980	0.490	A
4,4'-DDE	ND		ug/kg	1.57	0.363	A
4,4'-DDD	ND		ug/kg	1.57	0.559	A
4,4'-DDT	ND		ug/kg	2.94	1.26	A
Endosulfan I	ND		ug/kg	1.57	0.370	A
Endosulfan II	ND		ug/kg	1.57	0.524	A
Endosulfan sulfate	ND		ug/kg	0.654	0.311	A
Methoxychlor	ND		ug/kg	2.94	0.915	A
Toxaphene	ND		ug/kg	29.4	8.24	A
cis-Chlordane	ND		ug/kg	1.96	0.546	A
trans-Chlordane	ND		ug/kg	1.96	0.518	A
Chlordane	ND		ug/kg	13.1	5.20	A

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/20/21 13:18
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 10/20/21 06:37
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-07,09 Batch: WG1560796-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	114		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	115		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 10/21/21 11:49
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 10/20/21 13:46

Methylation Date: 10/21/21 11:02

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 08 Batch: WG1561062-1						
2,4-D	ND		ug/l	10.0	0.498	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	70		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 10/21/21 14:55
Analyst: AR

Extraction Method: EPA 8151A
Extraction Date: 10/20/21 15:30

Methylation Date: 10/21/21 12:35

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-06,09 Batch: WG1561077-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.02	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.31	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	67		30-150	A
DCAA	69		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/21/21 12:03
Analyst: SDC

Extraction Method: EPA 3510C
Extraction Date: 10/21/21 00:31

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 08 Batch: WG1561223-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/21/21 12:03
Analyst: SDC

Extraction Method: EPA 3510C
Extraction Date: 10/21/21 00:31

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 08 Batch: WG1561223-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	47		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-07,09 Batch: WG1560796-2 WG1560796-3									
Delta-BHC	82		79		30-150	4		30	A
Lindane	86		84		30-150	2		30	A
Alpha-BHC	90		87		30-150	3		30	A
Beta-BHC	81		78		30-150	4		30	A
Heptachlor	86		84		30-150	2		30	A
Aldrin	84		81		30-150	4		30	A
Heptachlor epoxide	69		79		30-150	14		30	A
Endrin	91		89		30-150	2		30	A
Endrin aldehyde	75		73		30-150	3		30	A
Endrin ketone	86		86		30-150	0		30	A
Dieldrin	92		90		30-150	2		30	A
4,4'-DDE	84		82		30-150	2		30	A
4,4'-DDD	88		86		30-150	2		30	A
4,4'-DDT	89		86		30-150	3		30	A
Endosulfan I	80		79		30-150	1		30	A
Endosulfan II	86		85		30-150	1		30	A
Endosulfan sulfate	75		74		30-150	1		30	A
Methoxychlor	78		77		30-150	1		30	A
cis-Chlordane	70		68		30-150	3		30	A
trans-Chlordane	88		85		30-150	3		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-07,09 Batch: WG1560796-2 WG1560796-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		81		30-150	A
Decachlorobiphenyl	110		107		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		84		30-150	B
Decachlorobiphenyl	110		110		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 08 Batch: WG1561062-2 WG1561062-3									
2,4-D	71		73		30-150	3		25	A
2,4,5-T	69		71		30-150	3		25	A
2,4,5-TP (Silvex)	72		75		30-150	4		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	81		83		30-150	A
DCAA	77		79		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-06,09 Batch: WG1561077-2 WG1561077-3									
2,4-D	68		71		30-150	4		30	A
2,4,5-T	63		68		30-150	8		30	A
2,4,5-TP (Silvex)	68		70		30-150	3		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	75		77		30-150	A
DCAA	75		83		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 08 Batch: WG1561223-2 WG1561223-3									
Delta-BHC	80		97		30-150	19		20	A
Lindane	85		102		30-150	18		20	A
Alpha-BHC	85		101		30-150	18		20	A
Beta-BHC	81		98		30-150	20		20	A
Heptachlor	85		102		30-150	18		20	A
Aldrin	89		105		30-150	17		20	A
Heptachlor epoxide	79		94		30-150	17		20	A
Endrin	87		103		30-150	17		20	A
Endrin aldehyde	74		96		30-150	**27**	Q	20	A
Endrin ketone	80		96		30-150	19		20	A
Dieldrin	91		109		30-150	18		20	A
4,4'-DDE	86		102		30-150	17		20	A
4,4'-DDD	94		111		30-150	16		20	A
4,4'-DDT	88		108		30-150	**21**	Q	20	A
Endosulfan I	82		97		30-150	17		20	A
Endosulfan II	87		105		30-150	19		20	A
Endosulfan sulfate	80		98		30-150	20		20	A
Methoxychlor	88		106		30-150	19		20	A
cis-Chlordane	75		89		30-150	17		20	A
trans-Chlordane	94		109		30-150	15		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 08 Batch: WG1561223-2 WG1561223-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		75		30-150	A
Decachlorobiphenyl	71		100		30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		72		30-150	B
Decachlorobiphenyl	46		67		30-150	B

METALS

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-01
Client ID: EP42_ -3
Sample Location: BROOKLYN, NY
Date Collected: 10/19/21 14:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	686		mg/kg	10.3	2.78	2	10/20/21 20:14	10/21/21 21:01	EPA 3050B	1,6010D	JC
Antimony, Total	ND		mg/kg	5.14	0.391	2	10/20/21 20:14	10/21/21 21:01	EPA 3050B	1,6010D	JC
Arsenic, Total	1.60		mg/kg	1.03	0.214	2	10/20/21 20:14	10/21/21 21:01	EPA 3050B	1,6010D	JC
Barium, Total	1.87		mg/kg	1.03	0.179	2	10/20/21 20:14	10/21/21 21:01	EPA 3050B	1,6010D	JC
Beryllium, Total	0.072	J	mg/kg	0.514	0.034	2	10/20/21 20:14	10/21/21 21:01	EPA 3050B	1,6010D	JC
Cadmium, Total	ND		mg/kg	1.03	0.101	2	10/20/21 20:14	10/21/21 21:01	EPA 3050B	1,6010D	JC
Calcium, Total	269		mg/kg	10.3	3.60	2	10/20/21 20:14	10/21/21 21:01	EPA 3050B	1,6010D	JC
Chromium, Total	2.72		mg/kg	1.03	0.099	2	10/20/21 20:14	10/21/21 21:01	EPA 3050B	1,6010D	JC
Cobalt, Total	0.740	J	mg/kg	2.06	0.171	2	10/20/21 20:14	10/21/21 21:01	EPA 3050B	1,6010D	JC
Copper, Total	0.699	J	mg/kg	1.03	0.265	2	10/20/21 20:14	10/21/21 21:01	EPA 3050B	1,6010D	JC
Iron, Total	1590		mg/kg	5.14	0.929	2	10/20/21 20:14	10/21/21 21:01	EPA 3050B	1,6010D	JC
Lead, Total	1.18	J	mg/kg	5.14	0.276	2	10/20/21 20:14	10/21/21 21:01	EPA 3050B	1,6010D	JC
Magnesium, Total	317		mg/kg	10.3	1.58	2	10/20/21 20:14	10/21/21 21:01	EPA 3050B	1,6010D	JC
Manganese, Total	13.5		mg/kg	1.03	0.164	2	10/20/21 20:14	10/21/21 21:01	EPA 3050B	1,6010D	JC
Mercury, Total	ND		mg/kg	0.105	0.068	1	10/20/21 21:08	10/21/21 08:28	EPA 7471B	1,7471B	AC
Nickel, Total	1.79	J	mg/kg	2.57	0.249	2	10/20/21 20:14	10/21/21 21:01	EPA 3050B	1,6010D	JC
Potassium, Total	147	J	mg/kg	257	14.8	2	10/20/21 20:14	10/21/21 21:01	EPA 3050B	1,6010D	JC
Selenium, Total	0.298	J	mg/kg	2.06	0.265	2	10/20/21 20:14	10/21/21 21:01	EPA 3050B	1,6010D	JC
Silver, Total	ND		mg/kg	1.03	0.291	2	10/20/21 20:14	10/21/21 21:01	EPA 3050B	1,6010D	JC
Sodium, Total	144	J	mg/kg	206	3.24	2	10/20/21 20:14	10/21/21 21:01	EPA 3050B	1,6010D	JC
Thallium, Total	ND		mg/kg	2.06	0.324	2	10/20/21 20:14	10/21/21 21:01	EPA 3050B	1,6010D	JC
Vanadium, Total	3.35		mg/kg	1.03	0.209	2	10/20/21 20:14	10/21/21 21:01	EPA 3050B	1,6010D	JC
Zinc, Total	3.72	J	mg/kg	5.14	0.301	2	10/20/21 20:14	10/21/21 21:01	EPA 3050B	1,6010D	JC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1.4		mg/kg	1.1	1.1	1		10/25/21 14:53	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2157259
Project Number: 170599501
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-02
Client ID: EP41_ -3
Sample Location: BROOKLYN, NY
Date Collected: 10/19/21 14:05
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	604		mg/kg	9.92	2.68	2	10/20/21 20:14	10/21/21 22:50	EPA 3050B	1,6010D	JC
Antimony, Total	ND		mg/kg	4.96	0.377	2	10/20/21 20:14	10/21/21 22:50	EPA 3050B	1,6010D	JC
Arsenic, Total	0.595	J	mg/kg	0.992	0.206	2	10/20/21 20:14	10/21/21 22:50	EPA 3050B	1,6010D	JC
Barium, Total	1.60		mg/kg	0.992	0.173	2	10/20/21 20:14	10/21/21 22:50	EPA 3050B	1,6010D	JC
Beryllium, Total	0.040	J	mg/kg	0.496	0.033	2	10/20/21 20:14	10/21/21 22:50	EPA 3050B	1,6010D	JC
Cadmium, Total	ND		mg/kg	0.992	0.097	2	10/20/21 20:14	10/21/21 22:50	EPA 3050B	1,6010D	JC
Calcium, Total	182		mg/kg	9.92	3.47	2	10/20/21 20:14	10/21/21 22:50	EPA 3050B	1,6010D	JC
Chromium, Total	2.35		mg/kg	0.992	0.095	2	10/20/21 20:14	10/21/21 22:50	EPA 3050B	1,6010D	JC
Cobalt, Total	0.675	J	mg/kg	1.98	0.165	2	10/20/21 20:14	10/21/21 22:50	EPA 3050B	1,6010D	JC
Copper, Total	0.972	J	mg/kg	0.992	0.256	2	10/20/21 20:14	10/21/21 22:50	EPA 3050B	1,6010D	JC
Iron, Total	1240		mg/kg	4.96	0.896	2	10/20/21 20:14	10/21/21 22:50	EPA 3050B	1,6010D	JC
Lead, Total	1.52	J	mg/kg	4.96	0.266	2	10/20/21 20:14	10/21/21 22:50	EPA 3050B	1,6010D	JC
Magnesium, Total	314		mg/kg	9.92	1.53	2	10/20/21 20:14	10/21/21 22:50	EPA 3050B	1,6010D	JC
Manganese, Total	12.8		mg/kg	0.992	0.158	2	10/20/21 20:14	10/21/21 22:50	EPA 3050B	1,6010D	JC
Mercury, Total	ND		mg/kg	0.092	0.060	1	10/20/21 21:08	10/21/21 09:11	EPA 7471B	1,7471B	AC
Nickel, Total	1.64	J	mg/kg	2.48	0.240	2	10/20/21 20:14	10/21/21 22:50	EPA 3050B	1,6010D	JC
Potassium, Total	140	J	mg/kg	248	14.3	2	10/20/21 20:14	10/21/21 22:50	EPA 3050B	1,6010D	JC
Selenium, Total	ND		mg/kg	1.98	0.256	2	10/20/21 20:14	10/21/21 22:50	EPA 3050B	1,6010D	JC
Silver, Total	ND		mg/kg	0.992	0.281	2	10/20/21 20:14	10/21/21 22:50	EPA 3050B	1,6010D	JC
Sodium, Total	558		mg/kg	198	3.12	2	10/20/21 20:14	10/21/21 22:50	EPA 3050B	1,6010D	JC
Thallium, Total	ND		mg/kg	1.98	0.312	2	10/20/21 20:14	10/21/21 22:50	EPA 3050B	1,6010D	JC
Vanadium, Total	2.85		mg/kg	0.992	0.201	2	10/20/21 20:14	10/21/21 22:50	EPA 3050B	1,6010D	JC
Zinc, Total	4.48	J	mg/kg	4.96	0.291	2	10/20/21 20:14	10/21/21 22:50	EPA 3050B	1,6010D	JC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1.3	J	mg/kg	1.0	1.1	1		10/25/21 14:53	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-03
Client ID: EP43_ -3
Sample Location: BROOKLYN, NY
Date Collected: 10/19/21 14:10
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	666		mg/kg	10.2	2.76	2	10/20/21 20:14	10/21/21 22:54	EPA 3050B	1,6010D	JC
Antimony, Total	ND		mg/kg	5.10	0.388	2	10/20/21 20:14	10/21/21 22:54	EPA 3050B	1,6010D	JC
Arsenic, Total	0.541	J	mg/kg	1.02	0.212	2	10/20/21 20:14	10/21/21 22:54	EPA 3050B	1,6010D	JC
Barium, Total	2.36		mg/kg	1.02	0.178	2	10/20/21 20:14	10/21/21 22:54	EPA 3050B	1,6010D	JC
Beryllium, Total	ND		mg/kg	0.510	0.034	2	10/20/21 20:14	10/21/21 22:54	EPA 3050B	1,6010D	JC
Cadmium, Total	ND		mg/kg	1.02	0.100	2	10/20/21 20:14	10/21/21 22:54	EPA 3050B	1,6010D	JC
Calcium, Total	226		mg/kg	10.2	3.57	2	10/20/21 20:14	10/21/21 22:54	EPA 3050B	1,6010D	JC
Chromium, Total	2.22		mg/kg	1.02	0.098	2	10/20/21 20:14	10/21/21 22:54	EPA 3050B	1,6010D	JC
Cobalt, Total	0.592	J	mg/kg	2.04	0.170	2	10/20/21 20:14	10/21/21 22:54	EPA 3050B	1,6010D	JC
Copper, Total	1.43		mg/kg	1.02	0.263	2	10/20/21 20:14	10/21/21 22:54	EPA 3050B	1,6010D	JC
Iron, Total	1440		mg/kg	5.10	0.922	2	10/20/21 20:14	10/21/21 22:54	EPA 3050B	1,6010D	JC
Lead, Total	1.50	J	mg/kg	5.10	0.274	2	10/20/21 20:14	10/21/21 22:54	EPA 3050B	1,6010D	JC
Magnesium, Total	314		mg/kg	10.2	1.57	2	10/20/21 20:14	10/21/21 22:54	EPA 3050B	1,6010D	JC
Manganese, Total	12.6		mg/kg	1.02	0.162	2	10/20/21 20:14	10/21/21 22:54	EPA 3050B	1,6010D	JC
Mercury, Total	ND		mg/kg	0.103	0.067	1	10/20/21 21:08	10/21/21 09:15	EPA 7471B	1,7471B	AC
Nickel, Total	2.74		mg/kg	2.55	0.247	2	10/20/21 20:14	10/21/21 22:54	EPA 3050B	1,6010D	JC
Potassium, Total	94.1	J	mg/kg	255	14.7	2	10/20/21 20:14	10/21/21 22:54	EPA 3050B	1,6010D	JC
Selenium, Total	ND		mg/kg	2.04	0.263	2	10/20/21 20:14	10/21/21 22:54	EPA 3050B	1,6010D	JC
Silver, Total	ND		mg/kg	1.02	0.289	2	10/20/21 20:14	10/21/21 22:54	EPA 3050B	1,6010D	JC
Sodium, Total	92.9	J	mg/kg	204	3.22	2	10/20/21 20:14	10/21/21 22:54	EPA 3050B	1,6010D	JC
Thallium, Total	ND		mg/kg	2.04	0.322	2	10/20/21 20:14	10/21/21 22:54	EPA 3050B	1,6010D	JC
Vanadium, Total	2.52		mg/kg	1.02	0.207	2	10/20/21 20:14	10/21/21 22:54	EPA 3050B	1,6010D	JC
Zinc, Total	10.9		mg/kg	5.10	0.299	2	10/20/21 20:14	10/21/21 22:54	EPA 3050B	1,6010D	JC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1.4	J	mg/kg	1.1	1.1	1		10/25/21 14:53	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-04
Client ID: EP34_ -3
Sample Location: BROOKLYN, NY
Date Collected: 10/19/21 14:15
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	903		mg/kg	10.2	2.76	2	10/20/21 20:14	10/21/21 23:43	EPA 3050B	1,6010D	JC
Antimony, Total	ND		mg/kg	5.11	0.388	2	10/20/21 20:14	10/21/21 23:43	EPA 3050B	1,6010D	JC
Arsenic, Total	0.470	J	mg/kg	1.02	0.213	2	10/20/21 20:14	10/21/21 23:43	EPA 3050B	1,6010D	JC
Barium, Total	1.56		mg/kg	1.02	0.178	2	10/20/21 20:14	10/21/21 23:43	EPA 3050B	1,6010D	JC
Beryllium, Total	0.041	J	mg/kg	0.511	0.034	2	10/20/21 20:14	10/21/21 23:43	EPA 3050B	1,6010D	JC
Cadmium, Total	ND		mg/kg	1.02	0.100	2	10/20/21 20:14	10/21/21 23:43	EPA 3050B	1,6010D	JC
Calcium, Total	204		mg/kg	10.2	3.58	2	10/20/21 20:14	10/21/21 23:43	EPA 3050B	1,6010D	JC
Chromium, Total	2.97		mg/kg	1.02	0.098	2	10/20/21 20:14	10/21/21 23:43	EPA 3050B	1,6010D	JC
Cobalt, Total	0.889	J	mg/kg	2.04	0.170	2	10/20/21 20:14	10/21/21 23:43	EPA 3050B	1,6010D	JC
Copper, Total	1.29		mg/kg	1.02	0.264	2	10/20/21 20:14	10/21/21 23:43	EPA 3050B	1,6010D	JC
Iron, Total	1830		mg/kg	5.11	0.923	2	10/20/21 20:14	10/21/21 23:43	EPA 3050B	1,6010D	JC
Lead, Total	1.00	J	mg/kg	5.11	0.274	2	10/20/21 20:14	10/21/21 23:43	EPA 3050B	1,6010D	JC
Magnesium, Total	439		mg/kg	10.2	1.57	2	10/20/21 20:14	10/21/21 23:43	EPA 3050B	1,6010D	JC
Manganese, Total	15.1		mg/kg	1.02	0.162	2	10/20/21 20:14	10/21/21 23:43	EPA 3050B	1,6010D	JC
Mercury, Total	ND		mg/kg	0.094	0.062	1	10/20/21 21:08	10/21/21 09:18	EPA 7471B	1,7471B	AC
Nickel, Total	4.20		mg/kg	2.56	0.247	2	10/20/21 20:14	10/21/21 23:43	EPA 3050B	1,6010D	JC
Potassium, Total	141	J	mg/kg	256	14.7	2	10/20/21 20:14	10/21/21 23:43	EPA 3050B	1,6010D	JC
Selenium, Total	ND		mg/kg	2.04	0.264	2	10/20/21 20:14	10/21/21 23:43	EPA 3050B	1,6010D	JC
Silver, Total	ND		mg/kg	1.02	0.289	2	10/20/21 20:14	10/21/21 23:43	EPA 3050B	1,6010D	JC
Sodium, Total	260		mg/kg	204	3.22	2	10/20/21 20:14	10/21/21 23:43	EPA 3050B	1,6010D	JC
Thallium, Total	ND		mg/kg	2.04	0.322	2	10/20/21 20:14	10/21/21 23:43	EPA 3050B	1,6010D	JC
Vanadium, Total	3.68		mg/kg	1.02	0.207	2	10/20/21 20:14	10/21/21 23:43	EPA 3050B	1,6010D	JC
Zinc, Total	4.62	J	mg/kg	5.11	0.299	2	10/20/21 20:14	10/21/21 23:43	EPA 3050B	1,6010D	JC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1.8		mg/kg	1.0	1.0	1		10/25/21 14:53	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-05
Client ID: EP35_ -3
Sample Location: BROOKLYN, NY
Date Collected: 10/19/21 14:20
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	568		mg/kg	9.84	2.66	2	10/20/21 20:14	10/21/21 23:47	EPA 3050B	1,6010D	JC
Antimony, Total	ND		mg/kg	4.92	0.374	2	10/20/21 20:14	10/21/21 23:47	EPA 3050B	1,6010D	JC
Arsenic, Total	0.709	J	mg/kg	0.984	0.205	2	10/20/21 20:14	10/21/21 23:47	EPA 3050B	1,6010D	JC
Barium, Total	9.44		mg/kg	0.984	0.171	2	10/20/21 20:14	10/21/21 23:47	EPA 3050B	1,6010D	JC
Beryllium, Total	ND		mg/kg	0.492	0.033	2	10/20/21 20:14	10/21/21 23:47	EPA 3050B	1,6010D	JC
Cadmium, Total	ND		mg/kg	0.984	0.097	2	10/20/21 20:14	10/21/21 23:47	EPA 3050B	1,6010D	JC
Calcium, Total	798		mg/kg	9.84	3.45	2	10/20/21 20:14	10/21/21 23:47	EPA 3050B	1,6010D	JC
Chromium, Total	3.04		mg/kg	0.984	0.095	2	10/20/21 20:14	10/21/21 23:47	EPA 3050B	1,6010D	JC
Cobalt, Total	0.542	J	mg/kg	1.97	0.163	2	10/20/21 20:14	10/21/21 23:47	EPA 3050B	1,6010D	JC
Copper, Total	2.12		mg/kg	0.984	0.254	2	10/20/21 20:14	10/21/21 23:47	EPA 3050B	1,6010D	JC
Iron, Total	1330		mg/kg	4.92	0.889	2	10/20/21 20:14	10/21/21 23:47	EPA 3050B	1,6010D	JC
Lead, Total	18.0		mg/kg	4.92	0.264	2	10/20/21 20:14	10/21/21 23:47	EPA 3050B	1,6010D	JC
Magnesium, Total	290		mg/kg	9.84	1.52	2	10/20/21 20:14	10/21/21 23:47	EPA 3050B	1,6010D	JC
Manganese, Total	16.2		mg/kg	0.984	0.156	2	10/20/21 20:14	10/21/21 23:47	EPA 3050B	1,6010D	JC
Mercury, Total	0.062	J	mg/kg	0.092	0.060	1	10/20/21 21:08	10/21/21 09:21	EPA 7471B	1,7471B	AC
Nickel, Total	1.39	J	mg/kg	2.46	0.238	2	10/20/21 20:14	10/21/21 23:47	EPA 3050B	1,6010D	JC
Potassium, Total	102	J	mg/kg	246	14.2	2	10/20/21 20:14	10/21/21 23:47	EPA 3050B	1,6010D	JC
Selenium, Total	ND		mg/kg	1.97	0.254	2	10/20/21 20:14	10/21/21 23:47	EPA 3050B	1,6010D	JC
Silver, Total	ND		mg/kg	0.984	0.279	2	10/20/21 20:14	10/21/21 23:47	EPA 3050B	1,6010D	JC
Sodium, Total	61.3	J	mg/kg	197	3.10	2	10/20/21 20:14	10/21/21 23:47	EPA 3050B	1,6010D	JC
Thallium, Total	ND		mg/kg	1.97	0.310	2	10/20/21 20:14	10/21/21 23:47	EPA 3050B	1,6010D	JC
Vanadium, Total	3.06		mg/kg	0.984	0.200	2	10/20/21 20:14	10/21/21 23:47	EPA 3050B	1,6010D	JC
Zinc, Total	28.3		mg/kg	4.92	0.288	2	10/20/21 20:14	10/21/21 23:47	EPA 3050B	1,6010D	JC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1.8		mg/kg	1.0	1.0	1		10/25/21 14:53	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-06
Client ID: EP33_ -3
Sample Location: BROOKLYN, NY
Date Collected: 10/19/21 14:25
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	617		mg/kg	9.81	2.65	2	10/20/21 20:14	10/21/21 23:51	EPA 3050B	1,6010D	JC
Antimony, Total	ND		mg/kg	4.91	0.373	2	10/20/21 20:14	10/21/21 23:51	EPA 3050B	1,6010D	JC
Arsenic, Total	0.638	J	mg/kg	0.981	0.204	2	10/20/21 20:14	10/21/21 23:51	EPA 3050B	1,6010D	JC
Barium, Total	1.13		mg/kg	0.981	0.171	2	10/20/21 20:14	10/21/21 23:51	EPA 3050B	1,6010D	JC
Beryllium, Total	ND		mg/kg	0.491	0.032	2	10/20/21 20:14	10/21/21 23:51	EPA 3050B	1,6010D	JC
Cadmium, Total	ND		mg/kg	0.981	0.096	2	10/20/21 20:14	10/21/21 23:51	EPA 3050B	1,6010D	JC
Calcium, Total	203		mg/kg	9.81	3.43	2	10/20/21 20:14	10/21/21 23:51	EPA 3050B	1,6010D	JC
Chromium, Total	2.81		mg/kg	0.981	0.094	2	10/20/21 20:14	10/21/21 23:51	EPA 3050B	1,6010D	JC
Cobalt, Total	0.844	J	mg/kg	1.96	0.163	2	10/20/21 20:14	10/21/21 23:51	EPA 3050B	1,6010D	JC
Copper, Total	0.932	J	mg/kg	0.981	0.253	2	10/20/21 20:14	10/21/21 23:51	EPA 3050B	1,6010D	JC
Iron, Total	1410		mg/kg	4.91	0.886	2	10/20/21 20:14	10/21/21 23:51	EPA 3050B	1,6010D	JC
Lead, Total	0.922	J	mg/kg	4.91	0.263	2	10/20/21 20:14	10/21/21 23:51	EPA 3050B	1,6010D	JC
Magnesium, Total	299		mg/kg	9.81	1.51	2	10/20/21 20:14	10/21/21 23:51	EPA 3050B	1,6010D	JC
Manganese, Total	12.0		mg/kg	0.981	0.156	2	10/20/21 20:14	10/21/21 23:51	EPA 3050B	1,6010D	JC
Mercury, Total	ND		mg/kg	0.102	0.067	1	10/20/21 21:08	10/21/21 09:24	EPA 7471B	1,7471B	AC
Nickel, Total	2.88		mg/kg	2.45	0.237	2	10/20/21 20:14	10/21/21 23:51	EPA 3050B	1,6010D	JC
Potassium, Total	99.2	J	mg/kg	245	14.1	2	10/20/21 20:14	10/21/21 23:51	EPA 3050B	1,6010D	JC
Selenium, Total	ND		mg/kg	1.96	0.253	2	10/20/21 20:14	10/21/21 23:51	EPA 3050B	1,6010D	JC
Silver, Total	ND		mg/kg	0.981	0.278	2	10/20/21 20:14	10/21/21 23:51	EPA 3050B	1,6010D	JC
Sodium, Total	269		mg/kg	196	3.09	2	10/20/21 20:14	10/21/21 23:51	EPA 3050B	1,6010D	JC
Thallium, Total	ND		mg/kg	1.96	0.309	2	10/20/21 20:14	10/21/21 23:51	EPA 3050B	1,6010D	JC
Vanadium, Total	3.12		mg/kg	0.981	0.199	2	10/20/21 20:14	10/21/21 23:51	EPA 3050B	1,6010D	JC
Zinc, Total	5.18		mg/kg	4.91	0.288	2	10/20/21 20:14	10/21/21 23:51	EPA 3050B	1,6010D	JC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.1	J	mg/kg	1.0	1.0	1		10/25/21 14:53	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-08
Client ID: FB02_101921
Sample Location: BROOKLYN, NY
Date Collected: 10/19/21 15:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	10/21/21 14:36	10/21/21 23:03	EPA 3005A	1,6020B	WP
Antimony, Total	ND		mg/l	0.00400	0.00042	1	10/21/21 14:36	10/21/21 23:03	EPA 3005A	1,6020B	WP
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	10/21/21 14:36	10/21/21 23:03	EPA 3005A	1,6020B	WP
Barium, Total	ND		mg/l	0.00050	0.00017	1	10/21/21 14:36	10/21/21 23:03	EPA 3005A	1,6020B	WP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	10/21/21 14:36	10/21/21 23:03	EPA 3005A	1,6020B	WP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/21/21 14:36	10/21/21 23:03	EPA 3005A	1,6020B	WP
Calcium, Total	ND		mg/l	0.100	0.0394	1	10/21/21 14:36	10/22/21 14:21	EPA 3005A	1,6020B	CD
Chromium, Total	ND		mg/l	0.00100	0.00017	1	10/21/21 14:36	10/21/21 23:03	EPA 3005A	1,6020B	WP
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	10/21/21 14:36	10/21/21 23:03	EPA 3005A	1,6020B	WP
Copper, Total	ND		mg/l	0.00100	0.00038	1	10/21/21 14:36	10/21/21 23:03	EPA 3005A	1,6020B	WP
Iron, Total	ND		mg/l	0.0500	0.0191	1	10/21/21 14:36	10/21/21 23:03	EPA 3005A	1,6020B	WP
Lead, Total	ND		mg/l	0.00100	0.00034	1	10/21/21 14:36	10/21/21 23:03	EPA 3005A	1,6020B	WP
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	10/21/21 14:36	10/21/21 23:03	EPA 3005A	1,6020B	WP
Manganese, Total	ND		mg/l	0.00100	0.00044	1	10/21/21 14:36	10/21/21 23:03	EPA 3005A	1,6020B	WP
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/21/21 14:39	10/21/21 17:12	EPA 7470A	1,7470A	AC
Nickel, Total	ND		mg/l	0.00200	0.00055	1	10/21/21 14:36	10/21/21 23:03	EPA 3005A	1,6020B	WP
Potassium, Total	ND		mg/l	0.100	0.0309	1	10/21/21 14:36	10/21/21 23:03	EPA 3005A	1,6020B	WP
Selenium, Total	ND		mg/l	0.00500	0.00173	1	10/21/21 14:36	10/21/21 23:03	EPA 3005A	1,6020B	WP
Silver, Total	ND		mg/l	0.00040	0.00016	1	10/21/21 14:36	10/21/21 23:03	EPA 3005A	1,6020B	WP
Sodium, Total	0.112	J	mg/l	0.200	0.0293	1	10/21/21 14:36	10/21/21 23:03	EPA 3005A	1,6020B	WP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	10/21/21 14:36	10/21/21 23:03	EPA 3005A	1,6020B	WP
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	10/21/21 14:36	10/21/21 23:03	EPA 3005A	1,6020B	WP
Zinc, Total	ND		mg/l	0.01000	0.00341	1	10/21/21 14:36	10/21/21 23:03	EPA 3005A	1,6020B	WP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		10/21/21 23:03	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2157259
Project Number: 170599501
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-09
Client ID: DUP01_101921
Sample Location: BROOKLYN, NY
Date Collected: 10/19/21 00:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	519		mg/kg	10.1	2.73	2	10/20/21 20:14	10/21/21 23:55	EPA 3050B	1,6010D	JC
Antimony, Total	ND		mg/kg	5.06	0.385	2	10/20/21 20:14	10/21/21 23:55	EPA 3050B	1,6010D	JC
Arsenic, Total	0.698	J	mg/kg	1.01	0.210	2	10/20/21 20:14	10/21/21 23:55	EPA 3050B	1,6010D	JC
Barium, Total	1.39		mg/kg	1.01	0.176	2	10/20/21 20:14	10/21/21 23:55	EPA 3050B	1,6010D	JC
Beryllium, Total	ND		mg/kg	0.506	0.033	2	10/20/21 20:14	10/21/21 23:55	EPA 3050B	1,6010D	JC
Cadmium, Total	ND		mg/kg	1.01	0.099	2	10/20/21 20:14	10/21/21 23:55	EPA 3050B	1,6010D	JC
Calcium, Total	202		mg/kg	10.1	3.54	2	10/20/21 20:14	10/21/21 23:55	EPA 3050B	1,6010D	JC
Chromium, Total	2.21		mg/kg	1.01	0.097	2	10/20/21 20:14	10/21/21 23:55	EPA 3050B	1,6010D	JC
Cobalt, Total	0.587	J	mg/kg	2.02	0.168	2	10/20/21 20:14	10/21/21 23:55	EPA 3050B	1,6010D	JC
Copper, Total	0.547	J	mg/kg	1.01	0.261	2	10/20/21 20:14	10/21/21 23:55	EPA 3050B	1,6010D	JC
Iron, Total	1100		mg/kg	5.06	0.914	2	10/20/21 20:14	10/21/21 23:55	EPA 3050B	1,6010D	JC
Lead, Total	0.931	J	mg/kg	5.06	0.271	2	10/20/21 20:14	10/21/21 23:55	EPA 3050B	1,6010D	JC
Magnesium, Total	253		mg/kg	10.1	1.56	2	10/20/21 20:14	10/21/21 23:55	EPA 3050B	1,6010D	JC
Manganese, Total	11.5		mg/kg	1.01	0.161	2	10/20/21 20:14	10/21/21 23:55	EPA 3050B	1,6010D	JC
Mercury, Total	ND		mg/kg	0.096	0.062	1	10/20/21 21:08	10/21/21 09:34	EPA 7471B	1,7471B	AC
Nickel, Total	1.45	J	mg/kg	2.53	0.245	2	10/20/21 20:14	10/21/21 23:55	EPA 3050B	1,6010D	JC
Potassium, Total	104	J	mg/kg	253	14.6	2	10/20/21 20:14	10/21/21 23:55	EPA 3050B	1,6010D	JC
Selenium, Total	ND		mg/kg	2.02	0.261	2	10/20/21 20:14	10/21/21 23:55	EPA 3050B	1,6010D	JC
Silver, Total	ND		mg/kg	1.01	0.286	2	10/20/21 20:14	10/21/21 23:55	EPA 3050B	1,6010D	JC
Sodium, Total	16.0	J	mg/kg	202	3.19	2	10/20/21 20:14	10/21/21 23:55	EPA 3050B	1,6010D	JC
Thallium, Total	ND		mg/kg	2.02	0.319	2	10/20/21 20:14	10/21/21 23:55	EPA 3050B	1,6010D	JC
Vanadium, Total	2.61		mg/kg	1.01	0.205	2	10/20/21 20:14	10/21/21 23:55	EPA 3050B	1,6010D	JC
Zinc, Total	2.56	J	mg/kg	5.06	0.296	2	10/20/21 20:14	10/21/21 23:55	EPA 3050B	1,6010D	JC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1.6	J	mg/kg	1.0	1.0	1		10/25/21 14:53	NA	107,-	

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06,09 Batch: WG1561030-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/20/21 21:08	10/21/21 08:22	1,7471B	AC

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06,09 Batch: WG1561033-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	10/20/21 20:14	10/21/21 20:53	1,6010D	JC
Antimony, Total	ND		mg/kg	2.00	0.152	1	10/20/21 20:14	10/21/21 20:53	1,6010D	JC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	10/20/21 20:14	10/21/21 20:53	1,6010D	JC
Barium, Total	ND		mg/kg	0.400	0.070	1	10/20/21 20:14	10/21/21 20:53	1,6010D	JC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	10/20/21 20:14	10/21/21 20:53	1,6010D	JC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	10/20/21 20:14	10/21/21 20:53	1,6010D	JC
Calcium, Total	ND		mg/kg	4.00	1.40	1	10/20/21 20:14	10/21/21 20:53	1,6010D	JC
Chromium, Total	ND		mg/kg	0.400	0.038	1	10/20/21 20:14	10/21/21 20:53	1,6010D	JC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	10/20/21 20:14	10/21/21 20:53	1,6010D	JC
Copper, Total	ND		mg/kg	0.400	0.103	1	10/20/21 20:14	10/21/21 20:53	1,6010D	JC
Iron, Total	ND		mg/kg	2.00	0.361	1	10/20/21 20:14	10/21/21 20:53	1,6010D	JC
Lead, Total	ND		mg/kg	2.00	0.107	1	10/20/21 20:14	10/21/21 20:53	1,6010D	JC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	10/20/21 20:14	10/21/21 20:53	1,6010D	JC
Manganese, Total	ND		mg/kg	0.400	0.064	1	10/20/21 20:14	10/21/21 20:53	1,6010D	JC
Nickel, Total	ND		mg/kg	1.00	0.097	1	10/20/21 20:14	10/21/21 20:53	1,6010D	JC
Potassium, Total	ND		mg/kg	100	5.76	1	10/20/21 20:14	10/21/21 20:53	1,6010D	JC
Selenium, Total	ND		mg/kg	0.800	0.103	1	10/20/21 20:14	10/21/21 20:53	1,6010D	JC
Silver, Total	ND		mg/kg	0.400	0.113	1	10/20/21 20:14	10/21/21 20:53	1,6010D	JC
Sodium, Total	4.88	J	mg/kg	80.0	1.26	1	10/20/21 20:14	10/21/21 20:53	1,6010D	JC
Thallium, Total	ND		mg/kg	0.800	0.126	1	10/20/21 20:14	10/21/21 20:53	1,6010D	JC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	10/20/21 20:14	10/21/21 20:53	1,6010D	JC
Zinc, Total	ND		mg/kg	2.00	0.117	1	10/20/21 20:14	10/21/21 20:53	1,6010D	JC

Project Name: 1607 SURF AVENUE **Lab Number:** L2157259

Project Number: 170599501 **Report Date:** 10/26/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 08 Batch: WG1561544-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	10/21/21 14:36	10/21/21 20:37	1,6020B	WP
Antimony, Total	ND		mg/l	0.00400	0.00042	1	10/21/21 14:36	10/21/21 20:37	1,6020B	WP
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	10/21/21 14:36	10/21/21 20:37	1,6020B	WP
Barium, Total	ND		mg/l	0.00050	0.00017	1	10/21/21 14:36	10/21/21 20:37	1,6020B	WP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	10/21/21 14:36	10/21/21 20:37	1,6020B	WP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/21/21 14:36	10/21/21 20:37	1,6020B	WP
Calcium, Total	ND		mg/l	0.100	0.0394	1	10/21/21 14:36	10/21/21 20:37	1,6020B	WP
Chromium, Total	ND		mg/l	0.00100	0.00017	1	10/21/21 14:36	10/21/21 20:37	1,6020B	WP
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	10/21/21 14:36	10/21/21 20:37	1,6020B	WP
Copper, Total	ND		mg/l	0.00100	0.00038	1	10/21/21 14:36	10/21/21 20:37	1,6020B	WP
Iron, Total	ND		mg/l	0.0500	0.0191	1	10/21/21 14:36	10/21/21 20:37	1,6020B	WP
Lead, Total	ND		mg/l	0.00100	0.00034	1	10/21/21 14:36	10/21/21 20:37	1,6020B	WP
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	10/21/21 14:36	10/21/21 20:37	1,6020B	WP
Manganese, Total	ND		mg/l	0.00100	0.00044	1	10/21/21 14:36	10/21/21 20:37	1,6020B	WP
Nickel, Total	ND		mg/l	0.00200	0.00055	1	10/21/21 14:36	10/21/21 20:37	1,6020B	WP
Potassium, Total	ND		mg/l	0.100	0.0309	1	10/21/21 14:36	10/21/21 20:37	1,6020B	WP
Selenium, Total	ND		mg/l	0.00500	0.00173	1	10/21/21 14:36	10/21/21 20:37	1,6020B	WP
Silver, Total	ND		mg/l	0.00040	0.00016	1	10/21/21 14:36	10/21/21 20:37	1,6020B	WP
Sodium, Total	0.123	J	mg/l	0.200	0.0293	1	10/21/21 14:36	10/21/21 20:37	1,6020B	WP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	10/21/21 14:36	10/21/21 20:37	1,6020B	WP
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	10/21/21 14:36	10/21/21 20:37	1,6020B	WP
Zinc, Total	ND		mg/l	0.01000	0.00341	1	10/21/21 14:36	10/21/21 20:37	1,6020B	WP

Prep Information

Digestion Method: EPA 3005A

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 08 Batch: WG1561547-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/21/21 14:39	10/21/21 17:06	1,7470A	AC

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06,09 Batch: WG1561030-2 SRM Lot Number: D109-540								
Mercury, Total	108		-		60-140	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06,09 Batch: WG1561033-2 SRM Lot Number: D109-540					
Aluminum, Total	75	-	50-150	-	
Antimony, Total	122	-	19-250	-	
Arsenic, Total	101	-	70-130	-	
Barium, Total	95	-	75-125	-	
Beryllium, Total	99	-	75-125	-	
Cadmium, Total	97	-	75-125	-	
Calcium, Total	93	-	73-128	-	
Chromium, Total	97	-	70-130	-	
Cobalt, Total	96	-	75-125	-	
Copper, Total	99	-	75-125	-	
Iron, Total	96	-	35-165	-	
Lead, Total	97	-	72-128	-	
Magnesium, Total	87	-	62-138	-	
Manganese, Total	93	-	74-126	-	
Nickel, Total	96	-	70-130	-	
Potassium, Total	84	-	59-141	-	
Selenium, Total	99	-	68-132	-	
Silver, Total	97	-	68-131	-	
Sodium, Total	98	-	35-165	-	
Thallium, Total	96	-	68-131	-	
Vanadium, Total	92	-	59-141	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06,09 Batch: WG1561033-2 SRM Lot Number: D109-540					
Zinc, Total	97	-	70-130	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08 Batch: WG1561544-2					
Aluminum, Total	87	-	80-120	-	
Antimony, Total	84	-	80-120	-	
Arsenic, Total	94	-	80-120	-	
Barium, Total	93	-	80-120	-	
Beryllium, Total	99	-	80-120	-	
Cadmium, Total	98	-	80-120	-	
Calcium, Total	90	-	80-120	-	
Chromium, Total	88	-	80-120	-	
Cobalt, Total	89	-	80-120	-	
Copper, Total	94	-	80-120	-	
Iron, Total	91	-	80-120	-	
Lead, Total	95	-	80-120	-	
Magnesium, Total	92	-	80-120	-	
Manganese, Total	88	-	80-120	-	
Nickel, Total	89	-	80-120	-	
Potassium, Total	86	-	80-120	-	
Selenium, Total	90	-	80-120	-	
Silver, Total	101	-	80-120	-	
Sodium, Total	95	-	80-120	-	
Thallium, Total	102	-	80-120	-	
Vanadium, Total	88	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08 Batch: WG1561544-2					
Zinc, Total	92	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 08 Batch: WG1561547-2					
Mercury, Total	96	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06,09 QC Batch ID: WG1561030-3 QC Sample: L2157259-01 Client ID: EP42_ -3												
Mercury, Total	ND	0.188	0.208	110		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06,09 QC Batch ID: WG1561033-3 QC Sample: L2157259-01 Client ID: EP42_ -3										
Aluminum, Total	686	208	1200	**247**	Q	-	-	75-125	-	20
Antimony, Total	ND	52.1	51.0	98		-	-	75-125	-	20
Arsenic, Total	1.60	12.5	14.5	103		-	-	75-125	-	20
Barium, Total	1.87	208	209	99		-	-	75-125	-	20
Beryllium, Total	0.072J	5.21	5.42	104		-	-	75-125	-	20
Cadmium, Total	ND	5.52	5.34	97		-	-	75-125	-	20
Calcium, Total	269	1040	1360	105		-	-	75-125	-	20
Chromium, Total	2.72	20.8	24.0	102		-	-	75-125	-	20
Cobalt, Total	0.740J	52.1	48.9	94		-	-	75-125	-	20
Copper, Total	0.699J	26	26.3	101		-	-	75-125	-	20
Iron, Total	1590	104	2120	**508**	Q	-	-	75-125	-	20
Lead, Total	1.18J	55.2	54.8	99		-	-	75-125	-	20
Magnesium, Total	317	1040	1490	112		-	-	75-125	-	20
Manganese, Total	13.5	52.1	68.0	104		-	-	75-125	-	20
Nickel, Total	1.79J	52.1	52.1	100		-	-	75-125	-	20
Potassium, Total	147J	1040	1240	119		-	-	75-125	-	20
Selenium, Total	0.298J	12.5	12.2	98		-	-	75-125	-	20
Silver, Total	ND	31.3	32.4	104		-	-	75-125	-	20
Sodium, Total	144J	1040	1200	115		-	-	75-125	-	20
Thallium, Total	ND	12.5	12.3	98		-	-	75-125	-	20
Vanadium, Total	3.35	52.1	53.6	96		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06,09 QC Batch ID: WG1561033-3 QC Sample: L2157259-01 Client ID: EP42_ -3									
Zinc, Total	3.72J	52.1	54.7	105	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08 QC Batch ID: WG1561544-3 WG1561544-4 QC Sample: L2157140-01 Client ID: MS Sample									
Aluminum, Total	0.007J	2	1.90	95	1.79	90	75-125	6	20
Antimony, Total	0.02345	0.5	0.4582	87	0.4446	84	75-125	3	20
Arsenic, Total	0.00129	0.12	0.1236	102	0.1196	98	75-125	3	20
Barium, Total	0.00902	2	1.990	99	1.942	97	75-125	2	20
Beryllium, Total	0.00065	0.05	0.05105	101	0.05139	101	75-125	1	20
Cadmium, Total	0.00012J	0.053	0.05515	104	0.05256	99	75-125	5	20
Calcium, Total	12.6	10	23.6	110	22.6	100	75-125	4	20
Chromium, Total	0.00056J	0.2	0.1838	92	0.1773	89	75-125	4	20
Cobalt, Total	ND	0.5	0.4750	95	0.4600	92	75-125	3	20
Copper, Total	ND	0.25	0.2494	100	0.2402	96	75-125	4	20
Iron, Total	ND	1	1.01	101	0.938	94	75-125	7	20
Lead, Total	0.00060J	0.53	0.5320	100	0.5198	98	75-125	2	20
Magnesium, Total	1.42	10	11.5	101	10.9	95	75-125	5	20
Manganese, Total	0.0007J	0.5	0.4756	95	0.4564	91	75-125	4	20
Nickel, Total	ND	0.5	0.4888	98	0.4564	91	75-125	7	20
Potassium, Total	5.36	10	15.2	98	14.3	89	75-125	6	20
Selenium, Total	0.00607	0.12	0.120	95	0.121	96	75-125	1	20
Silver, Total	ND	0.05	0.05301	106	0.05145	103	75-125	3	20
Sodium, Total	9.80	10	21.8	120	20.2	104	75-125	8	20
Thallium, Total	ND	0.12	0.1282	107	0.1253	104	75-125	2	20
Vanadium, Total	ND	0.5	0.4526	90	0.4421	88	75-125	2	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08 QC Batch ID: WG1561544-3 WG1561544-4 QC Sample: L2157140-01 Client ID: MS Sample									
Zinc, Total	0.01330	0.5	0.4999	97	0.4844	94	75-125	3	20
Total Metals - Mansfield Lab Associated sample(s): 08 QC Batch ID: WG1561547-3 QC Sample: L2157259-08 Client ID: FB02_101921									
Mercury, Total	ND	0.005	0.00494	99	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06,09 QC Batch ID: WG1561030-4 QC Sample: L2157259-01 Client ID: EP42_ -3						
Mercury, Total	ND	ND	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06,09 QC Batch ID: WG1561033-4 QC Sample: L2157259-01 Client ID: EP42_ -3					
Aluminum, Total	686	623	mg/kg	10	20
Antimony, Total	ND	ND	mg/kg	NC	20
Arsenic, Total	1.60	1.34	mg/kg	18	20
Barium, Total	1.87	1.74	mg/kg	7	20
Beryllium, Total	0.072J	0.043J	mg/kg	NC	20
Cadmium, Total	ND	ND	mg/kg	NC	20
Calcium, Total	269	294	mg/kg	9	20
Chromium, Total	2.72	2.44	mg/kg	11	20
Cobalt, Total	0.740J	0.670J	mg/kg	NC	20
Copper, Total	0.699J	0.638J	mg/kg	NC	20
Iron, Total	1590	1420	mg/kg	11	20
Lead, Total	1.18J	1.06J	mg/kg	NC	20
Magnesium, Total	317	286	mg/kg	10	20
Manganese, Total	13.5	12.5	mg/kg	8	20
Nickel, Total	1.79J	1.60J	mg/kg	NC	20
Potassium, Total	147J	143J	mg/kg	NC	20
Selenium, Total	0.298J	ND	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Sodium, Total	144J	175J	mg/kg	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06,09 QC Batch ID: WG1561033-4 QC Sample: L2157259-01 Client ID: EP42_ -3					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	3.35	3.06	mg/kg	9	20
Zinc, Total	3.72J	3.49J	mg/kg	NC	20
Total Metals - Mansfield Lab Associated sample(s): 08 QC Batch ID: WG1561547-4 QC Sample: L2157259-08 Client ID: FB02_101921					
Mercury, Total	ND	ND	mg/l	NC	20

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2157259
Report Date: 10/26/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06,09 QC Batch ID: WG1561033-6 QC Sample: L2157259-01 Client ID: EP42_ -3						
Aluminum, Total	686	699	mg/kg	2		20
Calcium, Total	269	281	mg/kg	4		20
Iron, Total	1590	1650	mg/kg	4		20
Magnesium, Total	317	327	mg/kg	3		20

INORGANICS
&
MISCELLANEOUS

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-01
Client ID: EP42_ -3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/19/21 14:00
Date Received: 10/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.1		%	0.100	NA	1	-	10/20/21 05:28	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.27	1	10/21/21 15:26	10/22/21 14:45	1,9010C/9012B	JO
Chromium, Hexavalent	1.28		mg/kg	1.08	0.216	1	10/25/21 09:54	10/25/21 14:53	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-02
Client ID: EP41_ -3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 10/19/21 14:05
Date Received: 10/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.4		%	0.100	NA	1	-	10/20/21 05:28	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	10/21/21 15:26	10/22/21 14:48	1,9010C/9012B	JO
Chromium, Hexavalent	1.01	J	mg/kg	1.05	0.209	1	10/25/21 09:54	10/25/21 14:53	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-03
Client ID: EP43_ -3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/19/21 14:10
Date Received: 10/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.8		%	0.100	NA	1	-	10/20/21 05:28	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.27	1	10/21/21 15:26	10/22/21 14:49	1,9010C/9012B	JO
Chromium, Hexavalent	0.818	J	mg/kg	1.06	0.211	1	10/25/21 09:54	10/25/21 14:53	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-04
Client ID: EP34_ -3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/19/21 14:15
Date Received: 10/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.4		%	0.100	NA	1	-	10/20/21 05:28	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	10/21/21 15:26	10/22/21 14:50	1,9010C/9012B	JO
Chromium, Hexavalent	1.20		mg/kg	1.03	0.207	1	10/25/21 09:54	10/25/21 14:53	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-05
Client ID: EP35_ -3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/19/21 14:20
Date Received: 10/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.1		%	0.100	NA	1	-	10/20/21 05:28	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	10/21/21 15:26	10/22/21 14:51	1,9010C/9012B	JO
Chromium, Hexavalent	1.19		mg/kg	1.01	0.202	1	10/25/21 09:54	10/25/21 14:53	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-06
Client ID: EP33_ -3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 10/19/21 14:25
Date Received: 10/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.3		%	0.100	NA	1	-	10/20/21 05:28	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	10/21/21 15:26	10/22/21 14:52	1,9010C/9012B	JO
Chromium, Hexavalent	0.719	J	mg/kg	1.01	0.202	1	10/25/21 09:54	10/25/21 14:53	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-07
Client ID: EP53_ -4
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 14:30
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.6		%	0.100	NA	1	-	10/20/21 05:28	121,2540G	RI

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-08
Client ID: FB02_101921
Sample Location: BROOKLYN, NY

Date Collected: 10/19/21 15:00
Date Received: 10/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	10/26/21 11:30	10/26/21 14:20	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/20/21 06:04	10/20/21 06:06	1,7196A	VA

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

SAMPLE RESULTS

Lab ID: L2157259-09
Client ID: DUP01_101921
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 10/19/21 00:00
Date Received: 10/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.0		%	0.100	NA	1	-	10/20/21 05:28	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	10/21/21 15:26	10/22/21 14:53	1,9010C/9012B	JO
Chromium, Hexavalent	0.597	J	mg/kg	1.04	0.208	1	10/25/21 09:54	10/25/21 14:53	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2157259
Report Date: 10/26/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 08 Batch: WG1560787-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/20/21 06:04	10/20/21 06:05	1,7196A	VA
General Chemistry - Westborough Lab for sample(s): 01-06,09 Batch: WG1560961-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	10/25/21 09:54	10/25/21 14:53	1,7196A	NL
General Chemistry - Westborough Lab for sample(s): 01-06,09 Batch: WG1561491-1										
Cyanide, Total	ND		mg/kg	0.92	0.20	1	10/21/21 15:26	10/22/21 14:35	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 08 Batch: WG1563170-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	10/26/21 11:30	10/26/21 14:15	1,9010C/9012B	JO

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 08 Batch: WG1560787-2								
Chromium, Hexavalent	107		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-06,09 Batch: WG1560961-2								
Chromium, Hexavalent	90		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-06,09 Batch: WG1561491-2 WG1561491-3								
Cyanide, Total	84		**72**	Q	80-120	17		35
General Chemistry - Westborough Lab Associated sample(s): 08 Batch: WG1563170-2 WG1563170-3								
Cyanide, Total	111		103		85-115	7		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 08 QC Batch ID: WG1560787-4 QC Sample: L2157259-08 Client ID: FB02_101921												
Chromium, Hexavalent	ND	0.1	0.107	107		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-06,09 QC Batch ID: WG1560961-4 QC Sample: L2157259-01 Client ID: EP42_ -3												
Chromium, Hexavalent	1.28	1200	1310	109		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-06,09 QC Batch ID: WG1561491-4 WG1561491-5 QC Sample: L2156900-02 Client ID: MS Sample												
Cyanide, Total	ND	10	0.25J	**2**	Q	ND	**0**	Q	75-125	NC		35
General Chemistry - Westborough Lab Associated sample(s): 08 QC Batch ID: WG1563170-4 WG1563170-5 QC Sample: L2157259-08 Client ID: FB02_101921												
Cyanide, Total	0.001J	0.2	0.224	112		0.235	118		80-120	5		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2157259

Report Date: 10/26/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07,09 QC Batch ID: WG1560780-1 QC Sample: L2157259-01 Client ID: EP42_ -3						
Solids, Total	74.1	74.0	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 08 QC Batch ID: WG1560787-3 QC Sample: L2157259-08 Client ID: FB02_101921						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-06,09 QC Batch ID: WG1560961-6 QC Sample: L2157259-01 Client ID: EP42_ -3						
Chromium, Hexavalent	1.28	0.985J	mg/kg	NC		20

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent
D	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2157259-01A	Vial MeOH preserved	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L2157259-01B	Vial water preserved	A	NA		3.3	Y	Absent	20-OCT-21 06:26	NYTCL-8260HLW(14)
L2157259-01C	Vial water preserved	A	NA		3.3	Y	Absent	20-OCT-21 06:26	NYTCL-8260HLW(14)
L2157259-01D	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L2157259-01E	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)
L2157259-01F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.3	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2157259-01G	Glass 120ml/4oz unpreserved	A	NA		3.3	Y	Absent		HEXCR-7196(30)
L2157259-01H	Plastic 8oz unpreserved	B	NA		3.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2157259-01I	Glass 500ml/16oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2157259-02A	Vial MeOH preserved	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L2157259-02B	Vial water preserved	A	NA		3.3	Y	Absent	20-OCT-21 06:26	NYTCL-8260HLW(14)
L2157259-02C	Vial water preserved	A	NA		3.3	Y	Absent	20-OCT-21 06:26	NYTCL-8260HLW(14)
L2157259-02D	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L2157259-02E	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2157259-02F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.3	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),ZN-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2157259-02G	Glass 120ml/4oz unpreserved	A	NA		3.3	Y	Absent		HEXCR-7196(30)
L2157259-02H	Plastic 8oz unpreserved	B	NA		3.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2157259-02I	Glass 500ml/16oz unpreserved	A	NA		3.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2157259-03A	Vial MeOH preserved	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L2157259-03B	Vial water preserved	A	NA		3.3	Y	Absent	20-OCT-21 06:26	NYTCL-8260HLW(14)
L2157259-03C	Vial water preserved	A	NA		3.3	Y	Absent	20-OCT-21 06:26	NYTCL-8260HLW(14)
L2157259-03D	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L2157259-03E	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)
L2157259-03F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.3	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MG-TI(180),HG-T(28),FE-TI(180),MN-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2157259-03G	Glass 120ml/4oz unpreserved	A	NA		3.3	Y	Absent		HEXCR-7196(30)
L2157259-03H	Plastic 8oz unpreserved	B	NA		3.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2157259-03I	Glass 500ml/16oz unpreserved	A	NA		3.3	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2157259-04A	Vial MeOH preserved	C	NA		2.4	Y	Absent		NYTCL-8260HLW(14)
L2157259-04B	Vial water preserved	C	NA		2.4	Y	Absent	20-OCT-21 06:26	NYTCL-8260HLW(14)
L2157259-04C	Vial water preserved	C	NA		2.4	Y	Absent	20-OCT-21 06:26	NYTCL-8260HLW(14)
L2157259-04D	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L2157259-04E	Plastic 2oz unpreserved for TS	C	NA		2.4	Y	Absent		TS(7)
L2157259-04F	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.4	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MN-TI(180),FE-TI(180),MG-TI(180),HG-T(28),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2157259-04G	Glass 120ml/4oz unpreserved	C	NA		2.4	Y	Absent		HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2157259-04H	Plastic 8oz unpreserved	B	NA		3.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2157259-04I	Glass 500ml/16oz unpreserved	C	NA		2.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2157259-05A	Vial MeOH preserved	C	NA		2.4	Y	Absent		NYTCL-8260HLW(14)
L2157259-05B	Vial water preserved	C	NA		2.4	Y	Absent	20-OCT-21 06:26	NYTCL-8260HLW(14)
L2157259-05C	Vial water preserved	C	NA		2.4	Y	Absent	20-OCT-21 06:26	NYTCL-8260HLW(14)
L2157259-05D	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L2157259-05E	Plastic 2oz unpreserved for TS	C	NA		2.4	Y	Absent		TS(7)
L2157259-05F	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),ZN-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MN-TI(180),HG-T(28),FE-TI(180),MG-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2157259-05G	Glass 120ml/4oz unpreserved	C	NA		2.4	Y	Absent		HEXCR-7196(30)
L2157259-05H	Plastic 8oz unpreserved	B	NA		3.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2157259-05I	Glass 500ml/16oz unpreserved	C	NA		2.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2157259-06A	Vial MeOH preserved	C	NA		2.4	Y	Absent		NYTCL-8260HLW(14)
L2157259-06B	Vial water preserved	C	NA		2.4	Y	Absent	20-OCT-21 06:26	NYTCL-8260HLW(14)
L2157259-06C	Vial water preserved	C	NA		2.4	Y	Absent	20-OCT-21 06:26	NYTCL-8260HLW(14)
L2157259-06D	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L2157259-06E	Plastic 2oz unpreserved for TS	C	NA		2.4	Y	Absent		TS(7)
L2157259-06F	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.4	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),CU-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),NA-TI(180),K-TI(180),CD-TI(180),CA-TI(180)
L2157259-06G	Glass 120ml/4oz unpreserved	C	NA		2.4	Y	Absent		HEXCR-7196(30)
L2157259-06H	Plastic 8oz unpreserved	B	NA		3.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2157259-06I	Glass 500ml/16oz unpreserved	C	NA		2.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2157259-07A	Glass 60ml unpreserved split	C	NA		2.4	Y	Absent		TS(7)
L2157259-07B	Glass 60mL/2oz unpreserved	C	NA		2.4	Y	Absent		NYTCL-8081(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2157259-08A	Vial HCl preserved	D	NA		4.0	Y	Absent		NYTCL-8260(14)
L2157259-08B	Vial HCl preserved	D	NA		4.0	Y	Absent		NYTCL-8260(14)
L2157259-08C	Vial HCl preserved	D	NA		4.0	Y	Absent		NYTCL-8260(14)
L2157259-08D	Amber 120ml unpreserved	D	7	7	4.0	Y	Absent		NYTCL-8081(7)
L2157259-08E	Amber 120ml unpreserved	D	7	7	4.0	Y	Absent		NYTCL-8081(7)
L2157259-08F	Amber 120ml unpreserved	D	7	7	4.0	Y	Absent		NYTCL-8082-LVI(365)
L2157259-08G	Amber 120ml unpreserved	D	7	7	4.0	Y	Absent		NYTCL-8082-LVI(365)
L2157259-08H	Plastic 250ml HNO3 preserved	D	<2	<2	4.0	Y	Absent		SE-6020T(180),TL-6020T(180),FE-6020T(180),BA-6020T(180),CR-6020T(180),K-6020T(180),CA-6020T(180),NI-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),HG-T(28),CD-6020T(180),MG-6020T(180),AG-6020T(180),AL-6020T(180),CO-6020T(180)
L2157259-08I	Plastic 250ml NaOH preserved	D	>12	>12	4.0	Y	Absent		TCN-9010(14)
L2157259-08J	Plastic 250ml unpreserved	D	NA		4.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2157259-08K	Plastic 500ml unpreserved	D	7	7	4.0	Y	Absent		HEXCR-7196(1)
L2157259-08L	Amber 250ml unpreserved	D	7	7	4.0	Y	Absent		NYTCL-8270-LVI(7)
L2157259-08M	Amber 250ml unpreserved	D	7	7	4.0	Y	Absent		NYTCL-8270-LVI(7)
L2157259-08N	Amber 250ml unpreserved	D	7	7	4.0	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2157259-08O	Amber 250ml unpreserved	D	7	7	4.0	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2157259-08P	Amber 1000ml unpreserved	D	7	7	4.0	Y	Absent		HERB-APA(7)
L2157259-08Q	Amber 1000ml unpreserved	D	7	7	4.0	Y	Absent		HERB-APA(7)
L2157259-09A	Vial MeOH preserved	C	NA		2.4	Y	Absent		NYTCL-8260HLW(14)
L2157259-09B	Vial water preserved	C	NA		2.4	Y	Absent	20-OCT-21 06:26	NYTCL-8260HLW(14)
L2157259-09C	Vial water preserved	C	NA		2.4	Y	Absent	20-OCT-21 06:26	NYTCL-8260HLW(14)
L2157259-09D	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L2157259-09E	Plastic 2oz unpreserved for TS	C	NA		2.4	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2157259
Report Date: 10/26/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2157259-09F	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),ZN-TI(180),SE-TI(180),V-TI(180),CO-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2157259-09G	Glass 120ml/4oz unpreserved	C	NA		2.4	Y	Absent		HEXCR-7196(30)
L2157259-09H	Plastic 8oz unpreserved	B	NA		3.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2157259-09I	Glass 500ml/16oz unpreserved	C	NA		2.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2157259
Project Number:	170599501	**Report Date:**	10/26/21

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:	1607 SURF AVENUE	**Lab Number:**	L2157259
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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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2157259
Project Number:	170599501	**Report Date:**	10/26/21

Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2157259
Project Number:	170599501	**Report Date:**	10/26/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

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, SM4500Cl-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, **LACHAT 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

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
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 1

Date Rec'd in Lab: 10/20/21

ALPHA Job #: L2157259

Client Information
Client: LANGAN
Address:
Phone:
Fax:
Email: KSeman@langan.com

Project Information
Project Name: 1607 Surf Avenue
Project Location:
Project # 170599501
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date: All analyses to be submitted on a 5-day
Rush (only if pre approved) ☐ # of Days: TAT including PFAS

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ 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:
CC: ~~Lesmail@langan.com~~ Lesmail@langan.com; Data management@langan.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs, SVOCs	TCL Pesticides	TAL Metals	TCN	Hex/Trivalent Chromium	PFAS	1,4-dioxane	Herbs, PCBs	Sample Specific Comments	Total Bottle
57259-01	EP42_-3	10/19/21	1400	S	AR	X	X	X	X	X	X	X	X		
02	EP41_-3		~~1355~~ 1405		AR	X	X	X	X	X	X	X	X		
03	EP43_-3		1410		AR	X	X	X	X	X	X	X	X		
04	EP34_-3		1415		AR	X	X	X	X	X	X	X	X		
05	EP35_-3		1420		AR	X	X	X	X	X	X	X	X		
06	EP33_-3		1425		AR	X	X	X	X	X	X	X	X		
07	EP53_-4 *Run 24hr TAT*		1430		AR		X							*Run 24hr TAT*	
08	FB02-101921		1500		AR	X	X	X	X	X	X	X	X		
09	DUP01-101921	↓		↓	AR	X	X	X	X	X	X	X	X		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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								
Preservative								

Relinquished By:	Date/Time	Received By:	Date/Time
Ali Reed (Langan)	10/19/21 18:30		
	10/19/21 20:00	AAL	10/19/21 20:00
AAL	10/20/21 0305		10/20/21 0053
			10/20/21 03:05

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2158880
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Kimberly Semon
Phone:	(212) 479-5486
Project Name:	1607 SURF AVENUE
Project Number:	170599501
Report Date:	10/29/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2158880
Report Date: 10/29/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2158880-01	EP41_ -4	SOIL	BROOKLYN, NY	10/27/21 14:22	10/27/21
L2158880-02	EP42_ -4	SOIL	BROOKLYN, NY	10/27/21 14:28	10/27/21
L2158880-03	EP34_ -4	SOIL	BROOKLYN, NY	10/27/21 14:31	10/27/21
L2158880-04	EP35_ -4	SOIL	BROOKLYN, NY	10/27/21 14:36	10/27/21
L2158880-05	DUP01_102721	SOIL	BROOKLYN, NY	10/27/21 14:27	10/27/21

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2158880
Project Number:	170599501	**Report Date:**	10/29/21

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:	1607 SURF AVENUE	**Lab Number:**	L2158880
Project Number:	170599501	**Report Date:**	10/29/21

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: Michelle M. Morris

Title: Technical Director/Representative Date: 10/29/21

INORGANICS
&
MISCELLANEOUS

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2158880
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2158880-01
Client ID: EP41_ -4
Sample Location: BROOKLYN, NY

Date Collected: 10/27/21 14:22
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.0		%	0.100	NA	1	-	10/28/21 05:55	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.07	0.213	1	10/28/21 18:01	10/29/21 14:05	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2158880
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2158880-02
Client ID: EP42_ -4
Sample Location: BROOKLYN, NY

Date Collected: 10/27/21 14:28
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.5		%	0.100	NA	1	-	10/28/21 05:55	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.07	0.215	1	10/28/21 18:01	10/29/21 14:05	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2158880
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2158880-03
Client ID: EP34_ -4
Sample Location: BROOKLYN, NY

Date Collected: 10/27/21 14:31
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.7		%	0.100	NA	1	-	10/28/21 05:55	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.03	0.206	1	10/28/21 18:01	10/29/21 14:05	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2158880
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2158880-04
Client ID: EP35_ -4
Sample Location: BROOKLYN, NY

Date Collected: 10/27/21 14:36
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.1		%	0.100	NA	1	-	10/28/21 05:55	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.05	0.210	1	10/28/21 18:01	10/29/21 14:05	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2158880
Report Date: 10/29/21

SAMPLE RESULTS

Lab ID: L2158880-05
Client ID: DUP01_102721
Sample Location: BROOKLYN, NY

Date Collected: 10/27/21 14:27
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.5		%	0.100	NA	1	-	10/28/21 05:55	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.06	0.212	1	10/28/21 18:01	10/29/21 14:05	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2158880
Report Date: 10/29/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1564432-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	10/28/21 18:01	10/29/21 14:05	1,7196A	NL

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2158880

Report Date: 10/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1564432-2								
Chromium, Hexavalent	103		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2158880
Report Date: 10/29/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1564432-4 QC Sample: L2158880-01 Client ID: EP41_ -4												
Chromium, Hexavalent	ND	1160	1130	98		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2158880

Report Date: 10/29/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1564133-1 QC Sample: L2158880-01 Client ID: EP41_ -4						
Solids, Total	75.0	75.3	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1564432-6 QC Sample: L2158880-01 Client ID: EP41_ -4						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2158880
Report Date: 10/29/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158880-01A	Glass 120ml/4oz unpreserved	A	NA		4.4	Y	Absent		TS(7),HEXCR-7196(30)
L2158880-02A	Glass 120ml/4oz unpreserved	A	NA		4.4	Y	Absent		TS(7),HEXCR-7196(30)
L2158880-03A	Glass 120ml/4oz unpreserved	A	NA		4.4	Y	Absent		TS(7),HEXCR-7196(30)
L2158880-04A	Glass 120ml/4oz unpreserved	A	NA		4.4	Y	Absent		TS(7),HEXCR-7196(30)
L2158880-05A	Glass 120ml/4oz unpreserved	A	NA		4.4	Y	Absent		TS(7),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2158880
Project Number:	170599501	**Report Date:**	10/29/21

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:	1607 SURF AVENUE	**Lab Number:**	L2158880
Project Number:	170599501	**Report Date:**	10/29/21

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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2158880
Project Number:	170599501	**Report Date:**	10/29/21

Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2158880
Project Number:	170599501	**Report Date:**	10/29/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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, SM4500Cl-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, **LACHAT 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

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
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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 1

Date Rec'd in Lab: 10/27/21

ALPHA Job #: L2158880

Client Information
Client: Langan
Address:
Phone:
Fax:
Email: ksemon@langan.com

Project Information
Project Name: 1607 Surf Avenue
Project Location: Brooklyn, NY
Project #: 170599501
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☒ # of Days: 3 day TAT

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ 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:
cc: Lesmail@langan.com ; datamanagement@langan.com

Please specify Metals or TAL.

ANALYSIS
Hexavalent Chromium

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Hexavalent Chromium	Sample Specific Comments
58880-01	EP41-4	10/27/21	1422	S	GEC	X	
02	EP42-4	10/27/21	1429			X	
03	EP34-4	10/27/21	1431			X	
04	EP35-4	10/27/21	1436			X	
05	DUP01-102721	10/27/21				X	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
Gabriel Gutierrez Castro	10/27/21 1530	AKR	10/27 1530
AAL	10/27 1930	AAL	10/27/21 22:15
AAL	10/27/21 23:45		10/27/21 23:45

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2159806
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Kimberly Semon
Phone:	(212) 479-5486
Project Name:	1607 SURF AVENUE
Project Number:	170599501
Report Date:	11/08/21

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2159806-01	EPSW02_ -6.5	SOIL	BROOKLYN, NY	11/01/21 11:00	11/01/21
L2159806-02	EPSW10_ -6.5	SOIL	BROOKLYN, NY	11/01/21 11:10	11/01/21
L2159806-03	EP06_ -6.5	SOIL	BROOKLYN, NY	11/01/21 11:20	11/01/21
L2159806-04	EP14_ -6.5	SOIL	BROOKLYN, NY	11/01/21 11:30	11/01/21
L2159806-05	EPSW09_ -6.5	SOIL	BROOKLYN, NY	11/01/21 11:35	11/01/21
L2159806-06	FB03_110121	WATER	BROOKLYN, NY	11/01/21 11:40	11/01/21
L2159806-07	DUP02_110121	SOIL	BROOKLYN, NY	11/01/21 00:00	11/01/21

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2159806
Project Number:	170599501	**Report Date:**	11/08/21

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: 1607 SURF AVENUE **Lab Number:** L2159806
Project Number: 170599501 **Report Date:** 11/08/21

Case Narrative (continued)

Report Submission
November 08, 2021: This final report includes the results of all requested analyses.
November 05, 2021: This is a preliminary report.

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

Semivolatile Organics
The WG1566020-2/-3 LCS/LCSD recoveries, associated with L2159806-06, are below the acceptance criteria for 2,4-dinitrophenol (LCS at 8%) and benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported.
The WG1566161-2/-3 LCS/LCSD recoveries, associated with L2159806-01, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported.
The WG1566273-2/-3 LCS/LCSD recoveries, associated with L2159806-02, -03, -04, -05, and -07, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.
The WG1566161-6/-7 MS/MSD recoveries, performed on L2159806-01, are below the acceptance criteria for 2,4-dinitrophenol (0%/0%) and benzoic acid (0%/0%) due to the concentration of these compounds in the MS/MSD falling below the reported detection limit.

Perfluorinated Alkyl Acids by Isotope Dilution
WG1567003-1: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

Pesticides
L2159806-02: The internal standard (IS) response for 1-bromo-2-nitrobenzene (309%) was above the

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806
Project Number: 170599501 **Report Date:** 11/08/21

Case Narrative (continued)

acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. Since the IS response was above method criteria, all associated compounds reported from this column are considered to have a potentially low bias. The surrogate recovery is outside the method acceptance criteria for decachlorobiphenyl (18%) due to interference with the Internal Standard.
L2159806-03: The internal standard (IS) response for 1-bromo-2-nitrobenzene (254%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. Since the IS response was above method criteria, all associated compounds reported from this column are considered to have a potentially low bias. The surrogate recovery is outside the method acceptance criteria for decachlorobiphenyl (22%) due to interference with the Internal Standard.
L2159806-05: The internal standard (IS) response for 1-bromo-2-nitrobenzene (365%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. Since the IS response was above method criteria, all associated compounds reported from this column are considered to have a potentially low bias. The surrogate recovery is outside the method acceptance criteria for decachlorobiphenyl (17%) due to interference with the Internal Standard.
L2159806-07: The internal standard (IS) response for 1-bromo-2-nitrobenzene (269%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. Since the IS response was above method criteria, all associated compounds reported from this column are considered to have a potentially low bias. The surrogate recovery is outside the method acceptance criteria for decachlorobiphenyl (25%) due to interference with the Internal Standard.

Total Metals
L2159806-01 through -05, and -07: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.
The WG1566245-1 Method Blank, associated with L2159806-06, has a concentration above the reporting limit for barium. Since the associated sample concentrations are either greater than 10x the blank concentration or non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2159806
Project Number:	170599501	**Report Date:**	11/08/21

Case Narrative (continued)

The WG1567871-1 Method Blank, associated with L2159806-01, has a concentration above the reporting limit for iron. Since the associated sample concentrations are either greater than 10x the blank concentration or non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".

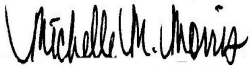
The WG1567871-3/-4 MS/MSD recoveries, performed on L2159806-01, are outside the acceptance criteria for aluminum (157%/143%). A post digestion spike was performed and yielded an unacceptable recovery for aluminum (75%). The serial dilution recovery was acceptable; therefore, the matrix test passed for the sample matrix.

The WG1567871-3/-4 MS/MSD recoveries for iron (229%/210%), performed on L2159806-01, do not apply because the sample concentration is greater than four times the spike amount added.

Cyanide, Total

The WG1566057-3 LCSD recovery for cyanide, total (69%), associated with L2159806-01, -02, -03, -04, -05, and -07, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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:  Michelle M. Morris

Title: Technical Director/Representative Date: 11/08/21

ORGANICS

VOLATILES

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-01
Client ID: EPSW02_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:00
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/04/21 10:47
Analyst: AJK
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.5	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.65	0.25	1
Chlorobenzene	ND		ug/kg	0.65	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.90	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.65	0.22	1
Bromodichloromethane	ND		ug/kg	0.65	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.65	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.65	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.65	0.20	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.65	0.21	1
Benzene	ND		ug/kg	0.65	0.21	1
Toluene	ND		ug/kg	1.3	0.70	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.2	1.2	1
Bromomethane	ND		ug/kg	2.6	0.75	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.18	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-01 Date Collected: 11/01/21 11:00

Client ID: EPSW02_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.65	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.72	1
o-Xylene	ND		ug/kg	1.3	0.38	1
Xylenes, Total	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.31	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.2	1
Carbon disulfide	ND		ug/kg	13	5.9	1
2-Butanone	ND		ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.65	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.2	0.84	1
Acrylonitrile	ND		ug/kg	5.2	1.5	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-01 Date Collected: 11/01/21 11:00

Client ID: EPSW02_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
1,4-Dioxane	ND		ug/kg	100	45.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.50	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.25	1
Ethyl ether	ND		ug/kg	2.6	0.44	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.5	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	93		70-130

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-02
Client ID: EPSW10_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:10
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/04/21 11:25
Analyst: AJK
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.9	3.2	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.1	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.32	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.37	1
Tetrachloroethene	ND		ug/kg	0.69	0.27	1
Chlorobenzene	ND		ug/kg	0.69	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.96	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.69	0.23	1
Bromodichloromethane	ND		ug/kg	0.69	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.38	1
cis-1,3-Dichloropropene	ND		ug/kg	0.69	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.69	0.22	1
1,1-Dichloropropene	ND		ug/kg	0.69	0.22	1
Bromoform	ND		ug/kg	5.5	0.34	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.69	0.23	1
Benzene	ND		ug/kg	0.69	0.23	1
Toluene	ND		ug/kg	1.4	0.75	1
Ethylbenzene	ND		ug/kg	1.4	0.19	1
Chloromethane	ND		ug/kg	5.5	1.3	1
Bromomethane	ND		ug/kg	2.8	0.80	1
Vinyl chloride	ND		ug/kg	1.4	0.46	1
Chloroethane	ND		ug/kg	2.8	0.62	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.19	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-02 Date Collected: 11/01/21 11:10

Client ID: EPSW10_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.69	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.8	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.28	1
p/m-Xylene	ND		ug/kg	2.8	0.77	1
o-Xylene	ND		ug/kg	1.4	0.40	1
Xylenes, Total	ND		ug/kg	1.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.19	1
Dibromomethane	ND		ug/kg	2.8	0.33	1
Styrene	ND		ug/kg	1.4	0.27	1
Dichlorodifluoromethane	ND		ug/kg	14	1.2	1
Acetone	8.2	J	ug/kg	14	6.6	1
Carbon disulfide	ND		ug/kg	14	6.2	1
2-Butanone	ND		ug/kg	14	3.0	1
Vinyl acetate	ND		ug/kg	14	3.0	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
1,2,3-Trichloropropane	ND		ug/kg	2.8	0.17	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.8	0.28	1
2,2-Dichloropropane	ND		ug/kg	2.8	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.38	1
1,3-Dichloropropane	ND		ug/kg	2.8	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.69	0.18	1
Bromobenzene	ND		ug/kg	2.8	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.8	0.16	1
o-Chlorotoluene	ND		ug/kg	2.8	0.26	1
p-Chlorotoluene	ND		ug/kg	2.8	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.23	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.5	0.89	1
Acrylonitrile	ND		ug/kg	5.5	1.6	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-02 Date Collected: 11/01/21 11:10

Client ID: EPSW10_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	0.46	1
1,4-Dioxane	ND		ug/kg	110	48.	1
p-Diethylbenzene	ND		ug/kg	2.8	0.24	1
p-Ethyltoluene	ND		ug/kg	2.8	0.53	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.8	0.26	1
Ethyl ether	ND		ug/kg	2.8	0.47	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.9	2.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	94		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-03
Client ID: EP06_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:20
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/04/21 12:03
Analyst: AJK
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.5	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.35	1
Tetrachloroethene	ND		ug/kg	0.65	0.26	1
Chlorobenzene	ND		ug/kg	0.65	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.90	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.65	0.22	1
Bromodichloromethane	ND		ug/kg	0.65	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.65	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.65	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.65	0.21	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.65	0.22	1
Benzene	ND		ug/kg	0.65	0.22	1
Toluene	ND		ug/kg	1.3	0.71	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.2	1.2	1
Bromomethane	ND		ug/kg	2.6	0.76	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
Chloroethane	ND		ug/kg	2.6	0.59	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-03 Date Collected: 11/01/21 11:20

Client ID: EP06_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.65	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.73	1
o-Xylene	ND		ug/kg	1.3	0.38	1
Xylenes, Total	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	0.27	J	ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	0.27	J	ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.31	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	10	J	ug/kg	13	6.3	1
Carbon disulfide	8.8	J	ug/kg	13	5.9	1
2-Butanone	ND		ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.27	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.65	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.2	0.85	1
Acrylonitrile	ND		ug/kg	5.2	1.5	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-03 Date Collected: 11/01/21 11:20

Client ID: EP06_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.44	1
1,4-Dioxane	ND		ug/kg	100	46.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.50	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.25	1
Ethyl ether	ND		ug/kg	2.6	0.44	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.5	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	94		70-130

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-04
Client ID: EP14_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:30
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/04/21 12:42
Analyst: AJK
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	11	5.1	1
1,1-Dichloroethane	ND		ug/kg	2.2	0.32	1
Chloroform	ND		ug/kg	3.3	0.31	1
Carbon tetrachloride	ND		ug/kg	2.2	0.51	1
1,2-Dichloropropane	ND		ug/kg	2.2	0.28	1
Dibromochloromethane	ND		ug/kg	2.2	0.31	1
1,1,2-Trichloroethane	ND		ug/kg	2.2	0.60	1
Tetrachloroethene	ND		ug/kg	1.1	0.44	1
Chlorobenzene	ND		ug/kg	1.1	0.28	1
Trichlorofluoromethane	ND		ug/kg	8.9	1.6	1
1,2-Dichloroethane	ND		ug/kg	2.2	0.57	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.37	1
Bromodichloromethane	ND		ug/kg	1.1	0.24	1
trans-1,3-Dichloropropene	ND		ug/kg	2.2	0.61	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.35	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.35	1
1,1-Dichloropropene	ND		ug/kg	1.1	0.35	1
Bromoform	ND		ug/kg	8.9	0.55	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.37	1
Benzene	ND		ug/kg	1.1	0.37	1
Toluene	ND		ug/kg	2.2	1.2	1
Ethylbenzene	ND		ug/kg	2.2	0.31	1
Chloromethane	ND		ug/kg	8.9	2.1	1
Bromomethane	ND		ug/kg	4.5	1.3	1
Vinyl chloride	ND		ug/kg	2.2	0.75	1
Chloroethane	ND		ug/kg	4.5	1.0	1
1,1-Dichloroethene	ND		ug/kg	2.2	0.53	1
trans-1,2-Dichloroethene	ND		ug/kg	3.3	0.30	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-04 Date Collected: 11/01/21 11:30

Client ID: EP14_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	1.1	0.30	1
1,2-Dichlorobenzene	ND		ug/kg	4.5	0.32	1
1,3-Dichlorobenzene	ND		ug/kg	4.5	0.33	1
1,4-Dichlorobenzene	ND		ug/kg	4.5	0.38	1
Methyl tert butyl ether	ND		ug/kg	4.5	0.45	1
p/m-Xylene	ND		ug/kg	4.5	1.2	1
o-Xylene	ND		ug/kg	2.2	0.65	1
Xylenes, Total	ND		ug/kg	2.2	0.65	1
cis-1,2-Dichloroethene	ND		ug/kg	2.2	0.39	1
1,2-Dichloroethene, Total	ND		ug/kg	2.2	0.30	1
Dibromomethane	ND		ug/kg	4.5	0.53	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	22	2.0	1
Acetone	23		ug/kg	22	11.	1
Carbon disulfide	13	J	ug/kg	22	10.	1
2-Butanone	ND		ug/kg	22	5.0	1
Vinyl acetate	ND		ug/kg	22	4.8	1
4-Methyl-2-pentanone	ND		ug/kg	22	2.8	1
1,2,3-Trichloropropane	ND		ug/kg	4.5	0.28	1
2-Hexanone	ND		ug/kg	22	2.6	1
Bromochloromethane	ND		ug/kg	4.5	0.46	1
2,2-Dichloropropane	ND		ug/kg	4.5	0.45	1
1,2-Dibromoethane	ND		ug/kg	2.2	0.62	1
1,3-Dichloropropane	ND		ug/kg	4.5	0.37	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.29	1
Bromobenzene	ND		ug/kg	4.5	0.32	1
n-Butylbenzene	ND		ug/kg	2.2	0.37	1
sec-Butylbenzene	ND		ug/kg	2.2	0.32	1
tert-Butylbenzene	ND		ug/kg	4.5	0.26	1
o-Chlorotoluene	ND		ug/kg	4.5	0.43	1
p-Chlorotoluene	ND		ug/kg	4.5	0.24	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.7	2.2	1
Hexachlorobutadiene	ND		ug/kg	8.9	0.38	1
Isopropylbenzene	ND		ug/kg	2.2	0.24	1
p-Isopropyltoluene	ND		ug/kg	2.2	0.24	1
Naphthalene	ND		ug/kg	8.9	1.4	1
Acrylonitrile	ND		ug/kg	8.9	2.6	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-04 Date Collected: 11/01/21 11:30

Client ID: EP14_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	2.2	0.38	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.5	0.72	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.5	0.61	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.5	0.43	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.5	0.74	1
1,4-Dioxane	ND		ug/kg	180	78.	1
p-Diethylbenzene	ND		ug/kg	4.5	0.40	1
p-Ethyltoluene	ND		ug/kg	4.5	0.86	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.5	0.43	1
Ethyl ether	ND		ug/kg	4.5	0.76	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	11	3.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	94		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-05
Client ID: EPSW09_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:35
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/04/21 13:20
Analyst: AJK
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.5	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.35	1
Tetrachloroethene	ND		ug/kg	0.65	0.26	1
Chlorobenzene	ND		ug/kg	0.65	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.91	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.65	0.22	1
Bromodichloromethane	ND		ug/kg	0.65	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.65	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.65	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.65	0.21	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.65	0.22	1
Benzene	ND		ug/kg	0.65	0.22	1
Toluene	ND		ug/kg	1.3	0.71	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.2	1.2	1
Bromomethane	ND		ug/kg	2.6	0.76	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
Chloroethane	ND		ug/kg	2.6	0.59	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-05 Date Collected: 11/01/21 11:35

Client ID: EPSW09_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.65	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.73	1
o-Xylene	ND		ug/kg	1.3	0.38	1
Xylenes, Total	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.31	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.3	1
Carbon disulfide	11	J	ug/kg	13	6.0	1
2-Butanone	ND		ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.17	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.27	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.65	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	0.20	J	ug/kg	1.3	0.14	1
Naphthalene	0.92	J	ug/kg	5.2	0.85	1
Acrylonitrile	ND		ug/kg	5.2	1.5	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-05 Date Collected: 11/01/21 11:35

Client ID: EPSW09_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.44	1
1,4-Dioxane	ND		ug/kg	100	46.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.50	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.25	1
Ethyl ether	ND		ug/kg	2.6	0.45	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.5	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	94		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-06
Client ID: FB03_110121
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:40
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/04/21 14:30
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-06 Date Collected: 11/01/21 11:40

Client ID: FB03_110121 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-06 Date Collected: 11/01/21 11:40

Client ID: FB03_110121 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	104		70-130

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-07
Client ID: DUP02_110121
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 00:00
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/04/21 13:58
Analyst: AJK
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.4	3.4	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.22	1
Chloroform	ND		ug/kg	2.2	0.21	1
Carbon tetrachloride	ND		ug/kg	1.5	0.34	1
1,2-Dichloropropane	ND		ug/kg	1.5	0.18	1
Dibromochloromethane	ND		ug/kg	1.5	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.40	1
Tetrachloroethene	ND		ug/kg	0.74	0.29	1
Chlorobenzene	ND		ug/kg	0.74	0.19	1
Trichlorofluoromethane	ND		ug/kg	5.9	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.38	1
1,1,1-Trichloroethane	ND		ug/kg	0.74	0.25	1
Bromodichloromethane	ND		ug/kg	0.74	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.40	1
cis-1,3-Dichloropropene	ND		ug/kg	0.74	0.23	1
1,3-Dichloropropene, Total	ND		ug/kg	0.74	0.23	1
1,1-Dichloropropene	ND		ug/kg	0.74	0.24	1
Bromoform	ND		ug/kg	5.9	0.36	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.74	0.25	1
Benzene	ND		ug/kg	0.74	0.25	1
Toluene	ND		ug/kg	1.5	0.80	1
Ethylbenzene	ND		ug/kg	1.5	0.21	1
Chloromethane	ND		ug/kg	5.9	1.4	1
Bromomethane	ND		ug/kg	3.0	0.86	1
Vinyl chloride	ND		ug/kg	1.5	0.50	1
Chloroethane	ND		ug/kg	3.0	0.67	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.35	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.20	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-07 Date Collected: 11/01/21 00:00

Client ID: DUP02_110121 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.74	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	3.0	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	3.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	3.0	0.25	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.30	1
p/m-Xylene	ND		ug/kg	3.0	0.83	1
o-Xylene	ND		ug/kg	1.5	0.43	1
Xylenes, Total	ND		ug/kg	1.5	0.43	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.26	1
1,2-Dichloroethene, Total	ND		ug/kg	1.5	0.20	1
Dibromomethane	ND		ug/kg	3.0	0.35	1
Styrene	ND		ug/kg	1.5	0.29	1
Dichlorodifluoromethane	ND		ug/kg	15	1.4	1
Acetone	ND		ug/kg	15	7.1	1
Carbon disulfide	ND		ug/kg	15	6.8	1
2-Butanone	ND		ug/kg	15	3.3	1
Vinyl acetate	ND		ug/kg	15	3.2	1
4-Methyl-2-pentanone	ND		ug/kg	15	1.9	1
1,2,3-Trichloropropane	ND		ug/kg	3.0	0.19	1
2-Hexanone	ND		ug/kg	15	1.8	1
Bromochloromethane	ND		ug/kg	3.0	0.30	1
2,2-Dichloropropane	ND		ug/kg	3.0	0.30	1
1,2-Dibromoethane	ND		ug/kg	1.5	0.41	1
1,3-Dichloropropane	ND		ug/kg	3.0	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.74	0.20	1
Bromobenzene	ND		ug/kg	3.0	0.22	1
n-Butylbenzene	ND		ug/kg	1.5	0.25	1
sec-Butylbenzene	ND		ug/kg	1.5	0.22	1
tert-Butylbenzene	ND		ug/kg	3.0	0.18	1
o-Chlorotoluene	ND		ug/kg	3.0	0.28	1
p-Chlorotoluene	ND		ug/kg	3.0	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.4	1.5	1
Hexachlorobutadiene	ND		ug/kg	5.9	0.25	1
Isopropylbenzene	ND		ug/kg	1.5	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.16	1
Naphthalene	ND		ug/kg	5.9	0.96	1
Acrylonitrile	ND		ug/kg	5.9	1.7	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-07 Date Collected: 11/01/21 00:00

Client ID: DUP02_110121 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.5	0.25	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.0	0.48	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.0	0.40	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.0	0.29	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.0	0.50	1
1,4-Dioxane	ND		ug/kg	120	52.	1
p-Diethylbenzene	ND		ug/kg	3.0	0.26	1
p-Ethyltoluene	ND		ug/kg	3.0	0.57	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.0	0.28	1
Ethyl ether	ND		ug/kg	3.0	0.51	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.4	2.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	93		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/04/21 08:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,07 Batch: WG1567176-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	0.86	J	ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/04/21 08:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,07 Batch: WG1567176-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/04/21 08:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,07 Batch: WG1567176-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	0.20	J	ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	0.66	J	ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	0.47	J	ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	0.41	J	ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	91		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/04/21 08:24
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1567182-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/04/21 08:24
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1567182-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/04/21 08:24
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1567182-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,07 Batch: WG1567176-3 WG1567176-4								
Methylene chloride	79		79		70-130	0		30
1,1-Dichloroethane	92		93		70-130	1		30
Chloroform	89		89		70-130	0		30
Carbon tetrachloride	82		84		70-130	2		30
1,2-Dichloropropane	94		94		70-130	0		30
Dibromochloromethane	95		96		70-130	1		30
1,1,2-Trichloroethane	99		100		70-130	1		30
Tetrachloroethene	90		88		70-130	2		30
Chlorobenzene	96		95		70-130	1		30
Trichlorofluoromethane	85		85		70-139	0		30
1,2-Dichloroethane	93		94		70-130	1		30
1,1,1-Trichloroethane	87		88		70-130	1		30
Bromodichloromethane	92		94		70-130	2		30
trans-1,3-Dichloropropene	98		99		70-130	1		30
cis-1,3-Dichloropropene	96		96		70-130	0		30
1,1-Dichloropropene	92		90		70-130	2		30
Bromoform	90		91		70-130	1		30
1,1,2,2-Tetrachloroethane	105		105		70-130	0		30
Benzene	93		93		70-130	0		30
Toluene	95		95		70-130	0		30
Ethylbenzene	99		98		70-130	1		30
Chloromethane	99		99		52-130	0		30
Bromomethane	92		92		57-147	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,07 Batch: WG1567176-3 WG1567176-4								
Vinyl chloride	98		97		67-130	1		30
Chloroethane	93		92		50-151	1		30
1,1-Dichloroethene	87		86		65-135	1		30
trans-1,2-Dichloroethene	88		87		70-130	1		30
Trichloroethene	88		87		70-130	1		30
1,2-Dichlorobenzene	95		95		70-130	0		30
1,3-Dichlorobenzene	97		96		70-130	1		30
1,4-Dichlorobenzene	97		96		70-130	1		30
Methyl tert butyl ether	94		95		66-130	1		30
p/m-Xylene	98		97		70-130	1		30
o-Xylene	99		98		70-130	1		30
cis-1,2-Dichloroethene	88		87		70-130	1		30
Dibromomethane	91		92		70-130	1		30
Styrene	103		103		70-130	0		30
Dichlorodifluoromethane	103		100		30-146	3		30
Acetone	89		87		54-140	2		30
Carbon disulfide	76		76		59-130	0		30
2-Butanone	89		92		70-130	3		30
Vinyl acetate	119		126		70-130	6		30
4-Methyl-2-pentanone	102		103		70-130	1		30
1,2,3-Trichloropropane	102		102		68-130	0		30
2-Hexanone	106		108		70-130	2		30
Bromochloromethane	86		86		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,07 Batch: WG1567176-3 WG1567176-4								
2,2-Dichloropropane	86		88		70-130	2		30
1,2-Dibromoethane	97		96		70-130	1		30
1,3-Dichloropropane	100		99		69-130	1		30
1,1,1,2-Tetrachloroethane	94		94		70-130	0		30
Bromobenzene	94		92		70-130	2		30
n-Butylbenzene	102		100		70-130	2		30
sec-Butylbenzene	99		98		70-130	1		30
tert-Butylbenzene	96		95		70-130	1		30
o-Chlorotoluene	100		99		70-130	1		30
p-Chlorotoluene	101		100		70-130	1		30
1,2-Dibromo-3-chloropropane	85		89		68-130	5		30
Hexachlorobutadiene	91		90		67-130	1		30
Isopropylbenzene	99		97		70-130	2		30
p-Isopropyltoluene	99		97		70-130	2		30
Naphthalene	100		101		70-130	1		30
Acrylonitrile	102		105		70-130	3		30
n-Propylbenzene	102		101		70-130	1		30
1,2,3-Trichlorobenzene	99		99		70-130	0		30
1,2,4-Trichlorobenzene	101		100		70-130	1		30
1,3,5-Trimethylbenzene	100		99		70-130	1		30
1,2,4-Trimethylbenzene	100		98		70-130	2		30
1,4-Dioxane	97		104		65-136	7		30
p-Diethylbenzene	101		99		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,07 Batch: WG1567176-3 WG1567176-4								
p-Ethyltoluene	100		99		70-130	1		30
1,2,4,5-Tetramethylbenzene	107		105		70-130	2		30
Ethyl ether	100		99		67-130	1		30
trans-1,4-Dichloro-2-butene	106		108		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		98		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	101		101		70-130
Dibromofluoromethane	90		92		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1567182-3 WG1567182-4								
Methylene chloride	110		110		70-130	0		20
1,1-Dichloroethane	100		90		70-130	11		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	87		95		63-132	9		20
1,2-Dichloropropane	97		99		70-130	2		20
Dibromochloromethane	79		83		63-130	5		20
1,1,2-Trichloroethane	92		92		70-130	0		20
Tetrachloroethene	96		98		70-130	2		20
Chlorobenzene	96		96		75-130	0		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	95		98		70-130	3		20
1,1,1-Trichloroethane	99		100		67-130	1		20
Bromodichloromethane	89		94		67-130	5		20
trans-1,3-Dichloropropene	79		81		70-130	3		20
cis-1,3-Dichloropropene	81		81		70-130	0		20
1,1-Dichloropropene	91		91		70-130	0		20
Bromoform	75		80		54-136	6		20
1,1,2,2-Tetrachloroethane	86		92		67-130	7		20
Benzene	93		95		70-130	2		20
Toluene	93		92		70-130	1		20
Ethylbenzene	96		96		70-130	0		20
Chloromethane	100		100		64-130	0		20
Bromomethane	120		110		39-139	9		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1567182-3 WG1567182-4								
Vinyl chloride	91		92		55-140	1		20
Chloroethane	130		130		55-138	0		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	94		96		70-130	2		20
1,2-Dichlorobenzene	94		97		70-130	3		20
1,3-Dichlorobenzene	97		99		70-130	2		20
1,4-Dichlorobenzene	95		99		70-130	4		20
Methyl tert butyl ether	100		110		63-130	10		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	95		100		70-130	5		20
cis-1,2-Dichloroethene	96		90		70-130	6		20
Dibromomethane	89		90		70-130	1		20
1,2,3-Trichloropropane	86		90		64-130	5		20
Acrylonitrile	85		75		70-130	13		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	88		88		36-147	0		20
Acetone	110		110		58-148	0		20
Carbon disulfide	100		120		51-130	18		20
2-Butanone	83		81		63-138	2		20
Vinyl acetate	89		81		70-130	9		20
4-Methyl-2-pentanone	70		76		59-130	8		20
2-Hexanone	72		72		57-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1567182-3 WG1567182-4								
Bromochloromethane	94		90		70-130	4		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	90		91		70-130	1		20
1,3-Dichloropropane	91		91		70-130	0		20
1,1,1,2-Tetrachloroethane	86		89		64-130	3		20
Bromobenzene	93		96		70-130	3		20
n-Butylbenzene	100		110		53-136	10		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	95		99		70-130	4		20
o-Chlorotoluene	100		100		70-130	0		20
p-Chlorotoluene	97		100		70-130	3		20
1,2-Dibromo-3-chloropropane	73		82		41-144	12		20
Hexachlorobutadiene	95		100		63-130	5		20
Isopropylbenzene	97		100		70-130	3		20
p-Isopropyltoluene	98		100		70-130	2		20
Naphthalene	**66**	Q	75		70-130	13		20
n-Propylbenzene	100		100		69-130	0		20
1,2,3-Trichlorobenzene	73		81		70-130	10		20
1,2,4-Trichlorobenzene	83		91		70-130	9		20
1,3,5-Trimethylbenzene	96		99		64-130	3		20
1,2,4-Trimethylbenzene	96		99		70-130	3		20
1,4-Dioxane	94		94		56-162	0		20
p-Diethylbenzene	98		100		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1567182-3 WG1567182-4								
p-Ethyltoluene	100		100		70-130	0		20
1,2,4,5-Tetramethylbenzene	87		90		70-130	3		20
Ethyl ether	110		110		59-134	0		20
trans-1,4-Dichloro-2-butene	83		93		70-130	11		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		104		70-130
Toluene-d8	97		94		70-130
4-Bromofluorobenzene	99		97		70-130
Dibromofluoromethane	96		96		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1567176-6 WG1567176-7 QC Sample: L2159806-01 Client ID: EPSW02_ -6.5												
Methylene chloride	ND	123	110	87		110	90		70-130	3		30
1,1-Dichloroethane	ND	123	130	107		140	112		70-130	4		30
Chloroform	ND	123	120	101		130	105		70-130	4		30
Carbon tetrachloride	ND	123	130	107		140	114		70-130	6		30
1,2-Dichloropropane	ND	123	130	102		130	105		70-130	3		30
Dibromochloromethane	ND	123	130	103		130	104		70-130	1		30
1,1,2-Trichloroethane	ND	123	120	100		120	101		70-130	1		30
Tetrachloroethene	ND	123	95	78		100	85		70-130	9		30
Chlorobenzene	ND	123	99	80		110	87		70-130	8		30
Trichlorofluoromethane	ND	123	140	116		150	120		70-139	3		30
1,2-Dichloroethane	ND	123	130	106		130	104		70-130	2		30
1,1,1-Trichloroethane	ND	123	140	111		140	116		70-130	4		30
Bromodichloromethane	ND	123	130	105		130	107		70-130	2		30
trans-1,3-Dichloropropene	ND	123	120	100		130	102		70-130	2		30
cis-1,3-Dichloropropene	ND	123	120	101		130	103		70-130	2		30
1,1-Dichloropropene	ND	123	130	103		130	109		70-130	5		30
Bromoform	ND	123	120	98		120	100		70-130	2		30
1,1,2,2-Tetrachloroethane	ND	123	130	102		130	103		70-130	1		30
Benzene	ND	123	120	101		130	106		70-130	5		30
Toluene	ND	123	110	89		120	96		70-130	8		30
Ethylbenzene	ND	123	97	79		110	86		70-130	9		30
Chloromethane	ND	123	150	124		160	129		52-130	3		30
Bromomethane	ND	123	130	109		140	116		57-147	6		30

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1567176-6 WG1567176-7 QC Sample: L2159806-01 Client ID: EPSW02_ -6.5												
Vinyl chloride	ND	123	150	124		160	130		67-130	4		30
Chloroethane	ND	123	140	110		140	116		50-151	4		30
1,1-Dichloroethene	ND	123	130	107		140	114		65-135	6		30
trans-1,2-Dichloroethene	ND	123	120	98		130	104		70-130	6		30
Trichloroethene	ND	123	120	94		120	99		70-130	5		30
1,2-Dichlorobenzene	ND	123	86	70		94	76		70-130	9		30
1,3-Dichlorobenzene	ND	123	79	**64**	Q	87	71		70-130	10		30
1,4-Dichlorobenzene	ND	123	78	**63**	Q	86	70		70-130	9		30
Methyl tert butyl ether	ND	123	130	103		130	103		66-130	1		30
p/m-Xylene	ND	246	180	74		200	82		70-130	9		30
o-Xylene	ND	246	190	79		210	86		70-130	9		30
cis-1,2-Dichloroethene	ND	123	120	97		120	100		70-130	3		30
Dibromomethane	ND	123	120	99		120	95		70-130	4		30
Styrene	ND	246	200	82		220	88		70-130	7		30
Dichlorodifluoromethane	ND	123	170	141		170	142		30-146	1		30
Acetone	ND	123	120	101		120	94		54-140	7		30
Carbon disulfide	ND	123	110	89		120	94		59-130	5		30
2-Butanone	ND	123	120	97		110	92		70-130	5		30
Vinyl acetate	ND	123	120	94		99	81		70-130	15		30
4-Methyl-2-pentanone	ND	123	140	110		130	104		70-130	5		30
1,2,3-Trichloropropane	ND	123	120	101		120	101		68-130	0		30
2-Hexanone	ND	123	140	115		130	108		70-130	6		30
Bromochloromethane	ND	123	120	94		120	94		70-130	1		30

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1567176-6 WG1567176-7 QC Sample: L2159806-01 Client ID: EPSW02_ -6.5												
2,2-Dichloropropane	ND	123	130	109		140	116		70-130	6		30
1,2-Dibromoethane	ND	123	120	97		120	96		70-130	1		30
1,3-Dichloropropane	ND	123	120	99		120	100		69-130	1		30
1,1,1,2-Tetrachloroethane	ND	123	120	94		120	99		70-130	5		30
Bromobenzene	ND	123	92	75		100	82		70-130	9		30
n-Butylbenzene	ND	123	65	**52**	Q	70	**57**	Q	70-130	9		30
sec-Butylbenzene	ND	123	75	**61**	Q	85	**69**	Q	70-130	12		30
tert-Butylbenzene	ND	123	81	**66**	Q	92	75		70-130	13		30
o-Chlorotoluene	ND	123	86	70		97	79		70-130	12		30
p-Chlorotoluene	ND	123	81	**66**	Q	91	74		70-130	11		30
1,2-Dibromo-3-chloropropane	ND	123	120	98		120	94		68-130	3		30
Hexachlorobutadiene	ND	123	58	**48**	Q	60	**49**	Q	67-130	3		30
Isopropylbenzene	ND	123	88	72		100	82		70-130	13		30
p-Isopropyltoluene	ND	123	69	**56**	Q	77	**63**	Q	70-130	11		30
Naphthalene	ND	123	110	88		110	88		70-130	0		30
Acrylonitrile	ND	123	140	110		130	104		70-130	6		30
n-Propylbenzene	ND	123	80	**65**	Q	90	74		70-130	12		30
1,2,3-Trichlorobenzene	ND	123	86	70		89	72		70-130	3		30
1,2,4-Trichlorobenzene	ND	123	80	**65**	Q	83	**68**	Q	70-130	5		30
1,3,5-Trimethylbenzene	ND	123	81	**66**	Q	91	74		70-130	12		30
1,2,4-Trimethylbenzene	ND	123	78	**64**	Q	88	71		70-130	11		30
1,4-Dioxane	ND	6150	8000	130		8000	131		65-136	0		30
p-Diethylbenzene	ND	123	65	**52**	Q	71	**58**	Q	70-130	9		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1567176-6 WG1567176-7 QC Sample: L2159806-01 Client ID: EPSW02_ -6.5												
p-Ethyltoluene	ND	123	75	**61**	Q	85	**69**	Q	70-130	12		30
1,2,4,5-Tetramethylbenzene	ND	123	79	**64**	Q	87	71		70-130	9		30
Ethyl ether	ND	123	130	106		130	106		67-130	1		30
trans-1,4-Dichloro-2-butene	ND	123	130	106		130	105		70-130	1		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		96		70-130
4-Bromofluorobenzene	101		102		70-130
Dibromofluoromethane	94		92		70-130
Toluene-d8	99		101		70-130

SEMIVOLATILES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-01
Client ID: EPSW02_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:00
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/03/21 16:37
Analyst: JRW
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 11/02/21 14:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	74.	1
Butyl benzyl phthalate	ND		ug/kg	210	54.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-01 Date Collected: 11/01/21 11:00

Client ID: EPSW02_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	45.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	39.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	88.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	80.	1
4-Nitrophenol	ND		ug/kg	300	87.	1
2,4-Dinitrophenol	ND		ug/kg	1000	99.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	33.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-01 Date Collected: 11/01/21 11:00

Client ID: EPSW02_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	41.	1
Benzoic Acid	ND		ug/kg	690	220	1
Benzyl Alcohol	ND		ug/kg	210	65.	1
Carbazole	ND		ug/kg	210	21.	1
1,4-Dioxane	ND		ug/kg	32	9.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	73		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-01
Client ID: EPSW02_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:00
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/04/21 15:34
Analyst: MP
Percent Solids: 77%

Extraction Method: ALPHA 23528
Extraction Date: 11/03/21 11:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.617	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.617	0.057	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.308	0.048	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.617	0.065	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.308	0.056	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.308	0.075	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.308	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.617	0.221	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.617	0.168	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.308	0.093	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.308	0.160	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.308	0.083	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.617	0.354	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.617	0.249	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.617	0.058	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.617	0.189	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.617	0.121	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.617	0.104	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.617	0.086	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.617	0.252	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.617	0.067	1
PFOA/PFOS, Total	ND		ng/g	0.308	0.052	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-01 Date Collected: 11/01/21 11:00

Client ID: EPSW02_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	102		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	103		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	108		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	104		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	104		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	113		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	91		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	120		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	104		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	105		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	110		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	59		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	111		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	64		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	57		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	85		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	70		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-02
Client ID: EPSW10_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:10
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/03/21 11:31
Analyst: CMM
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 11/02/21 18:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	37.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	57.	1
2,4-Dinitrotoluene	ND		ug/kg	210	43.	1
2,6-Dinitrotoluene	ND		ug/kg	210	37.	1
Fluoranthene	61	J	ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	74.	1
Butyl benzyl phthalate	ND		ug/kg	210	54.	1
Di-n-butylphthalate	ND		ug/kg	210	41.	1
Di-n-octylphthalate	ND		ug/kg	210	73.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-02 Date Collected: 11/01/21 11:10

Client ID: EPSW10_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	45.	1
Benzo(a)anthracene	29	J	ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	39	J	ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	30	J	ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	28	J	ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	60	J	ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	210	39.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	89.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	71.	1
2-Nitrophenol	ND		ug/kg	460	80.	1
4-Nitrophenol	ND		ug/kg	300	87.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-02 Date Collected: 11/01/21 11:10

Client ID: EPSW10_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	41.	1
Benzoic Acid	ND		ug/kg	690	220	1
Benzyl Alcohol	ND		ug/kg	210	66.	1
Carbazole	ND		ug/kg	210	21.	1
1,4-Dioxane	ND		ug/kg	32	9.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		25-120
Phenol-d6	55		10-120
Nitrobenzene-d5	48		23-120
2-Fluorobiphenyl	48		30-120
2,4,6-Tribromophenol	57		10-136
4-Terphenyl-d14	38		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-02
Client ID: EPSW10_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:10
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/04/21 16:24
Analyst: MP
Percent Solids: 78%

Extraction Method: ALPHA 23528
Extraction Date: 11/03/21 11:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.580	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.580	0.053	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.290	0.045	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.580	0.061	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.290	0.052	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.290	0.070	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.290	0.049	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.580	0.208	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.580	0.158	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.290	0.087	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.290	0.151	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.290	0.078	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.580	0.333	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.580	0.234	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.580	0.054	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.580	0.177	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.580	0.114	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.580	0.098	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.580	0.081	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.580	0.237	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.580	0.063	1
PFOA/PFOS, Total	ND		ng/g	0.290	0.049	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-02 Date Collected: 11/01/21 11:10

Client ID: EPSW10_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	97		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	98		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	105		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	100		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	98		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	105		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	91		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	110		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	98		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	109		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	53		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	40		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	52		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	79		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	72		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-03
Client ID: EP06_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:20
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/03/21 11:54
Analyst: CMM
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 11/02/21 18:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	40.	1
1,3-Dichlorobenzene	ND		ug/kg	220	38.	1
1,4-Dichlorobenzene	ND		ug/kg	220	39.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	59.	1
2,4-Dinitrotoluene	ND		ug/kg	220	44.	1
2,6-Dinitrotoluene	ND		ug/kg	220	38.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	34.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	38.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	630	200	1
Hexachloroethane	ND		ug/kg	180	36.	1
Isophorone	ND		ug/kg	200	29.	1
Naphthalene	ND		ug/kg	220	27.	1
Nitrobenzene	ND		ug/kg	200	33.	1
NDPA/DPA	ND		ug/kg	180	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	76.	1
Butyl benzyl phthalate	ND		ug/kg	220	56.	1
Di-n-butylphthalate	ND		ug/kg	220	42.	1
Di-n-octylphthalate	ND		ug/kg	220	75.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-03 Date Collected: 11/01/21 11:20

Client ID: EP06_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	ND		ug/kg	130	25.	1
Benzo(a)pyrene	ND		ug/kg	180	54.	1
Benzo(b)fluoranthene	ND		ug/kg	130	37.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	ND		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	180	34.	1
Anthracene	ND		ug/kg	130	43.	1
Benzo(ghi)perylene	ND		ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	22.	1
Phenanthrene	ND		ug/kg	130	27.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	26.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	31.	1
Pyrene	ND		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	51.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	43.	1
3-Nitroaniline	ND		ug/kg	220	42.	1
4-Nitroaniline	ND		ug/kg	220	92.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	260	27.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	42.	1
p-Chloro-m-cresol	ND		ug/kg	220	33.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	36.	1
2,4-Dimethylphenol	ND		ug/kg	220	73.	1
2-Nitrophenol	ND		ug/kg	480	83.	1
4-Nitrophenol	ND		ug/kg	310	90.	1
2,4-Dinitrophenol	ND		ug/kg	1100	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	580	110	1
Pentachlorophenol	ND		ug/kg	180	49.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	35.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-03 Date Collected: 11/01/21 11:20

Client ID: EP06_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	42.	1
Benzoic Acid	ND		ug/kg	720	220	1
Benzyl Alcohol	ND		ug/kg	220	68.	1
Carbazole	ND		ug/kg	220	22.	1
1,4-Dioxane	ND		ug/kg	33	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		25-120
Phenol-d6	50		10-120
Nitrobenzene-d5	46		23-120
2-Fluorobiphenyl	44		30-120
2,4,6-Tribromophenol	51		10-136
4-Terphenyl-d14	33		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-03
Client ID: EP06_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:20
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/04/21 16:40
Analyst: MP
Percent Solids: 75%

Extraction Method: ALPHA 23528
Extraction Date: 11/03/21 11:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.595	0.027	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.595	0.055	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.298	0.046	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.595	0.063	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.298	0.054	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.298	0.072	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.298	0.050	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.595	0.214	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.595	0.162	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.298	0.089	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.298	0.155	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.298	0.080	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.595	0.342	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.595	0.240	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.595	0.056	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.595	0.182	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.595	0.117	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.595	0.100	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.595	0.083	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.595	0.243	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.595	0.064	1
PFOA/PFOS, Total	ND		ng/g	0.298	0.050	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-03 Date Collected: 11/01/21 11:20

Client ID: EP06_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	94		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	96		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	109		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	101		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	99		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	105		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	94		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	119		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	119		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	58		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	18		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	55		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	81		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	71		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-04
Client ID: EP14_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:30
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/05/21 11:23
Analyst: CMM
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 11/02/21 18:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	220	21.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	43.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	54.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-04 Date Collected: 11/01/21 11:30

Client ID: EP14_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	45.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	220	39.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	ND		ug/kg	220	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	22.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	190	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	71.	1
2-Nitrophenol	ND		ug/kg	470	81.	1
4-Nitrophenol	ND		ug/kg	300	88.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-04 Date Collected: 11/01/21 11:30

Client ID: EP14_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	41.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	220	66.	1
Carbazole	ND		ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	32	9.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	61		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-04
Client ID: EP14_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:30
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/04/21 16:57
Analyst: MP
Percent Solids: 77%

Extraction Method: ALPHA 23528
Extraction Date: 11/03/21 11:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.614	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.614	0.056	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.307	0.048	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.614	0.064	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.307	0.055	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.307	0.074	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.307	0.051	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.614	0.220	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.614	0.167	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.307	0.092	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.307	0.160	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.307	0.082	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.614	0.352	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.614	0.247	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.614	0.057	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.614	0.188	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.614	0.120	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.124	J	ng/g	0.614	0.104	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.614	0.086	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.614	0.251	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.614	0.066	1
PFOA/PFOS, Total	ND		ng/g	0.307	0.051	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-04 Date Collected: 11/01/21 11:30

Client ID: EP14_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	97		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	98		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	109		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	101		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	100		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	101		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	107		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	97		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	121		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	103		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	123		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	61		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	107		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	16		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	58		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	84		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	73		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-05
Client ID: EPSW09_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:35
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/03/21 12:41
Analyst: CMM
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 11/02/21 18:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	29.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	43.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	34	J	ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	200	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	200	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	55.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-05 Date Collected: 11/01/21 11:35

Client ID: EPSW09_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	34.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	26.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	28	J	ug/kg	130	22.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	ND		ug/kg	220	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	72.	1
2-Nitrophenol	ND		ug/kg	470	82.	1
4-Nitrophenol	ND		ug/kg	300	88.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-05 Date Collected: 11/01/21 11:35

Client ID: EPSW09_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	42.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	220	66.	1
Carbazole	ND		ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	32	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		25-120
Phenol-d6	50		10-120
Nitrobenzene-d5	45		23-120
2-Fluorobiphenyl	44		30-120
2,4,6-Tribromophenol	48		10-136
4-Terphenyl-d14	32		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-05
Client ID: EPSW09_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:35
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/04/21 17:14
Analyst: MP
Percent Solids: 76%

Extraction Method: ALPHA 23528
Extraction Date: 11/03/21 11:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.632	0.029	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.632	0.058	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.316	0.049	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.632	0.066	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.316	0.057	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.316	0.077	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.316	0.053	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.632	0.227	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.632	0.172	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.316	0.095	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.316	0.164	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.316	0.085	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.632	0.363	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.632	0.255	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.632	0.059	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.632	0.193	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.632	0.124	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.632	0.107	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.632	0.089	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.632	0.258	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.632	0.068	1
PFOA/PFOS, Total	ND		ng/g	0.316	0.053	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-05 Date Collected: 11/01/21 11:35

Client ID: EPSW09_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	97		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	109		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	103		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	102		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	108		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	95		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	123		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	107		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	103		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	120		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	62		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	108		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	16		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	65		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	85		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	76		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-06
Client ID: FB03_110121
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:40
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/02/21 22:41
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/02/21 09:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	0.44	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Hexachlorobenzene	ND		ug/l	2.0	0.46	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
2-Chloronaphthalene	ND		ug/l	2.0	0.44	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
Fluoranthene	ND		ug/l	2.0	0.26	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorobutadiene	ND		ug/l	2.0	0.66	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Hexachloroethane	ND		ug/l	2.0	0.58	1
Isophorone	ND		ug/l	5.0	1.2	1
Naphthalene	ND		ug/l	2.0	0.46	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-06 Date Collected: 11/01/21 11:40

Client ID: FB03_110121 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Benzo(a)anthracene	ND		ug/l	2.0	0.32	1
Benzo(a)pyrene	ND		ug/l	2.0	0.41	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37	1
Chrysene	ND		ug/l	2.0	0.34	1
Acenaphthylene	ND		ug/l	2.0	0.46	1
Anthracene	ND		ug/l	2.0	0.33	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.30	1
Fluorene	ND		ug/l	2.0	0.41	1
Phenanthrene	ND		ug/l	2.0	0.33	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40	1
Pyrene	ND		ug/l	2.0	0.28	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
2-Methylnaphthalene	ND		ug/l	2.0	0.45	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Pentachlorophenol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-06 Date Collected: 11/01/21 11:40

Client ID: FB03_110121 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	57		15-120
2,4,6-Tribromophenol	35		10-120
4-Terphenyl-d14	60		41-149

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-06
Client ID: FB03_110121
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:40
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/05/21 05:29
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 11/04/21 09:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	144	32.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	35		15-110

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-06
Client ID: FB03_110121
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:40
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/05/21 13:57
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 11/04/21 10:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.78	0.362	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.78	0.352	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.78	0.211	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.78	0.291	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.78	0.200	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.78	0.334	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.78	0.210	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.78	1.18	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.78	0.611	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.78	0.277	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.78	0.447	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.78	0.270	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.78	1.08	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.78	0.575	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.78	0.231	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.78	0.870	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.78	0.515	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.78	0.714	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.78	0.330	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.78	0.290	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.78	0.220	1
PFOA/PFOS, Total	ND		ng/l	1.78	0.210	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-06 Date Collected: 11/01/21 11:40

Client ID: FB03_110121 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	124		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	118		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	124		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	113		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	104		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	112		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	57		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	113		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	107		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	63		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	50		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	95		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	53		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	47		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	73		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	62		22-136

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-07
Client ID: DUP02_110121
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 00:00
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/03/21 13:05
Analyst: CMM
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 11/02/21 18:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	38.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	44.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	48	J	ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	200	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	200	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	76.	1
Butyl benzyl phthalate	ND		ug/kg	220	55.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-07 Date Collected: 11/01/21 00:00

Client ID: DUP02_110121 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	27	J	ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	37.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	27	J	ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	170	34.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	26.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	49	J	ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	51.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	72.	1
2-Nitrophenol	ND		ug/kg	470	82.	1
4-Nitrophenol	ND		ug/kg	300	89.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	570	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-07 Date Collected: 11/01/21 00:00

Client ID: DUP02_110121 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	42.	1
Benzoic Acid	ND		ug/kg	710	220	1
Benzyl Alcohol	ND		ug/kg	220	67.	1
Carbazole	ND		ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	33	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		25-120
Phenol-d6	50		10-120
Nitrobenzene-d5	45		23-120
2-Fluorobiphenyl	46		30-120
2,4,6-Tribromophenol	52		10-136
4-Terphenyl-d14	42		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-07
Client ID: DUP02_110121
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 00:00
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/04/21 17:30
Analyst: MP
Percent Solids: 75%

Extraction Method: ALPHA 23528
Extraction Date: 11/03/21 11:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.621	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.621	0.057	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.311	0.049	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.621	0.065	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.311	0.056	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.311	0.075	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.311	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.621	0.223	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.621	0.170	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.311	0.093	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.311	0.162	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.311	0.083	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.621	0.357	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.621	0.250	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.621	0.058	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.621	0.190	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.621	0.122	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.621	0.105	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.621	0.087	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.621	0.254	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.621	0.067	1
PFOA/PFOS, Total	ND		ng/g	0.311	0.052	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-07 Date Collected: 11/01/21 00:00

Client ID: DUP02_110121 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	95		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	99		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	98		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	93		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	112		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	117		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	55		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	54		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	52		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	81		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	74		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/02/21 21:24
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/02/21 09:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1566020-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/02/21 21:24
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/02/21 09:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1566020-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/02/21 21:24
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/02/21 09:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1566020-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	52		15-120
2,4,6-Tribromophenol	30		10-120
4-Terphenyl-d14	51		41-149

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/03/21 14:44
Analyst: JRW

Extraction Method: EPA 3546
Extraction Date: 11/02/21 14:01

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1566161-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/03/21 14:44
Analyst: JRW

Extraction Method: EPA 3546
Extraction Date: 11/02/21 14:01

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1566161-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/03/21 14:44
Analyst: JRW

Extraction Method: EPA 3546
Extraction Date: 11/02/21 14:01

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1566161-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	81		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/03/21 07:35
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 11/02/21 18:30

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-05,07 Batch: WG1566273-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/03/21 07:35
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 11/02/21 18:30

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-05,07 Batch: WG1566273-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/03/21 07:35
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 11/02/21 18:30

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-05,07 Batch: WG1566273-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		25-120
Phenol-d6	55		10-120
Nitrobenzene-d5	46		23-120
2-Fluorobiphenyl	49		30-120
2,4,6-Tribromophenol	49		10-136
4-Terphenyl-d14	53		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/04/21 15:01
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 11/03/21 11:16

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-05,07 Batch: WG1566474-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/04/21 15:01
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 11/03/21 11:16

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-05,07 Batch: WG1566474-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	79		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	82		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	89		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	97		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	86		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	109		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	98		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	107		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	56		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	96		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	27		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	55		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	74		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	62		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 11/05/21 03:52
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 11/04/21 09:08

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 06 Batch: WG1566997-1					
1,4-Dioxane	ND		ng/l	150	33.9

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	43		15-110

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/04/21 23:19
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 11/04/21 10:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 06 Batch: WG1567003-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/04/21 23:19
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 11/04/21 10:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 06 Batch: WG1567003-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	121		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	114		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	106		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	105		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	106		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	110		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	141		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	114		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	104		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	103		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**180**	Q	10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	72		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	104		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	35		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	71		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	82		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	72		22-136

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1566020-2 WG1566020-3								
Acenaphthene	62		68		37-111	9		30
1,2,4-Trichlorobenzene	61		66		39-98	8		30
Hexachlorobenzene	46		51		40-140	10		30
Bis(2-chloroethyl)ether	66		71		40-140	7		30
2-Chloronaphthalene	59		67		40-140	13		30
1,2-Dichlorobenzene	59		66		40-140	11		30
1,3-Dichlorobenzene	61		66		40-140	8		30
1,4-Dichlorobenzene	60		64		36-97	6		30
3,3'-Dichlorobenzidine	51		58		40-140	13		30
2,4-Dinitrotoluene	57		63		48-143	10		30
2,6-Dinitrotoluene	63		68		40-140	8		30
Fluoranthene	62		62		40-140	0		30
4-Chlorophenyl phenyl ether	56		64		40-140	13		30
4-Bromophenyl phenyl ether	57		59		40-140	3		30
Bis(2-chloroisopropyl)ether	99		109		40-140	10		30
Bis(2-chloroethoxy)methane	71		78		40-140	9		30
Hexachlorobutadiene	56		64		40-140	13		30
Hexachlorocyclopentadiene	53		55		40-140	4		30
Hexachloroethane	62		67		40-140	8		30
Isophorone	72		79		40-140	9		30
Naphthalene	59		65		40-140	10		30
Nitrobenzene	66		72		40-140	9		30
NDPA/DPA	60		66		40-140	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1566020-2 WG1566020-3								
n-Nitrosodi-n-propylamine	75		82		29-132	9		30
Bis(2-ethylhexyl)phthalate	92		98		40-140	6		30
Butyl benzyl phthalate	72		78		40-140	8		30
Di-n-butylphthalate	72		74		40-140	3		30
Di-n-octylphthalate	92		98		40-140	6		30
Diethyl phthalate	64		72		40-140	12		30
Dimethyl phthalate	58		62		40-140	7		30
Benzo(a)anthracene	67		71		40-140	6		30
Benzo(a)pyrene	64		69		40-140	8		30
Benzo(b)fluoranthene	67		72		40-140	7		30
Benzo(k)fluoranthene	69		68		40-140	1		30
Chrysene	64		70		40-140	9		30
Acenaphthylene	62		67		45-123	8		30
Anthracene	64		67		40-140	5		30
Benzo(ghi)perylene	71		74		40-140	4		30
Fluorene	59		68		40-140	14		30
Phenanthrene	62		65		40-140	5		30
Dibenzo(a,h)anthracene	69		72		40-140	4		30
Indeno(1,2,3-cd)pyrene	71		79		40-140	11		30
Pyrene	60		62		26-127	3		30
Biphenyl	64		70		40-140	9		30
4-Chloroaniline	62		76		40-140	20		30
2-Nitroaniline	57		62		52-143	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1566020-2 WG1566020-3								
3-Nitroaniline	55		64		25-145	15		30
4-Nitroaniline	58		66		51-143	13		30
Dibenzofuran	59		66		40-140	11		30
2-Methylnaphthalene	62		66		40-140	6		30
1,2,4,5-Tetrachlorobenzene	59		64		2-134	8		30
Acetophenone	70		76		39-129	8		30
2,4,6-Trichlorophenol	52		63		30-130	19		30
p-Chloro-m-cresol	65		69		23-97	6		30
2-Chlorophenol	62		69		27-123	11		30
2,4-Dichlorophenol	64		69		30-130	8		30
2,4-Dimethylphenol	68		73		30-130	7		30
2-Nitrophenol	61		69		30-130	12		30
4-Nitrophenol	57		63		10-80	10		30
2,4-Dinitrophenol	**8**	Q	27		20-130	**112**	Q	30
4,6-Dinitro-o-cresol	43		61		20-164	**35**	Q	30
Pentachlorophenol	16		41		9-103	**88**	Q	30
Phenol	51		57		12-110	11		30
2-Methylphenol	62		71		30-130	14		30
3-Methylphenol/4-Methylphenol	66		71		30-130	7		30
2,4,5-Trichlorophenol	55		64		30-130	15		30
Benzoic Acid	**0**	Q	**0**	Q	10-164	NC		30
Benzyl Alcohol	60		72		26-116	18		30
Carbazole	61		62		55-144	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1566020-2 WG1566020-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	53		59		21-120
Phenol-d6	48		54		10-120
Nitrobenzene-d5	65		72		23-120
2-Fluorobiphenyl	57		64		15-120
2,4,6-Tribromophenol	39		48		10-120
4-Terphenyl-d14	56		58		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1566161-2 WG1566161-3								
Acenaphthene	70		73		31-137	4		50
1,2,4-Trichlorobenzene	64		66		38-107	3		50
Hexachlorobenzene	77		82		40-140	6		50
Bis(2-chloroethyl)ether	60		63		40-140	5		50
2-Chloronaphthalene	69		72		40-140	4		50
1,2-Dichlorobenzene	63		64		40-140	2		50
1,3-Dichlorobenzene	62		63		40-140	2		50
1,4-Dichlorobenzene	62		63		28-104	2		50
3,3'-Dichlorobenzidine	70		66		40-140	6		50
2,4-Dinitrotoluene	79		83		40-132	5		50
2,6-Dinitrotoluene	74		78		40-140	5		50
Fluoranthene	76		78		40-140	3		50
4-Chlorophenyl phenyl ether	70		74		40-140	6		50
4-Bromophenyl phenyl ether	77		79		40-140	3		50
Bis(2-chloroisopropyl)ether	61		62		40-140	2		50
Bis(2-chloroethoxy)methane	62		65		40-117	5		50
Hexachlorobutadiene	71		73		40-140	3		50
Hexachlorocyclopentadiene	57		59		40-140	3		50
Hexachloroethane	65		65		40-140	0		50
Isophorone	67		70		40-140	4		50
Naphthalene	66		67		40-140	2		50
Nitrobenzene	68		70		40-140	3		50
NDPA/DPA	72		75		36-157	4		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1566161-2 WG1566161-3								
n-Nitrosodi-n-propylamine	67		69		32-121	3		50
Bis(2-ethylhexyl)phthalate	79		82		40-140	4		50
Butyl benzyl phthalate	80		82		40-140	2		50
Di-n-butylphthalate	77		80		40-140	4		50
Di-n-octylphthalate	78		81		40-140	4		50
Diethyl phthalate	74		78		40-140	5		50
Dimethyl phthalate	72		74		40-140	3		50
Benzo(a)anthracene	73		76		40-140	4		50
Benzo(a)pyrene	75		76		40-140	1		50
Benzo(b)fluoranthene	80		83		40-140	4		50
Benzo(k)fluoranthene	77		79		40-140	3		50
Chrysene	72		74		40-140	3		50
Acenaphthylene	68		71		40-140	4		50
Anthracene	72		76		40-140	5		50
Benzo(ghi)perylene	81		85		40-140	5		50
Fluorene	72		76		40-140	5		50
Phenanthrene	71		73		40-140	3		50
Dibenzo(a,h)anthracene	79		82		40-140	4		50
Indeno(1,2,3-cd)pyrene	72		75		40-140	4		50
Pyrene	74		78		35-142	5		50
Biphenyl	70		73		37-127	4		50
4-Chloroaniline	74		74		40-140	0		50
2-Nitroaniline	76		80		47-134	5		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1566161-2 WG1566161-3								
3-Nitroaniline	67		66		26-129	2		50
4-Nitroaniline	72		74		41-125	3		50
Dibenzofuran	70		73		40-140	4		50
2-Methylnaphthalene	69		70		40-140	1		50
1,2,4,5-Tetrachlorobenzene	75		78		40-117	4		50
Acetophenone	70		72		14-144	3		50
2,4,6-Trichlorophenol	81		83		30-130	2		50
p-Chloro-m-cresol	79		82		26-103	4		50
2-Chlorophenol	69		71		25-102	3		50
2,4-Dichlorophenol	72		76		30-130	5		50
2,4-Dimethylphenol	68		71		30-130	4		50
2-Nitrophenol	70		73		30-130	4		50
4-Nitrophenol	83		88		11-114	6		50
2,4-Dinitrophenol	34		30		4-130	13		50
4,6-Dinitro-o-cresol	58		61		10-130	5		50
Pentachlorophenol	70		72		17-109	3		50
Phenol	67		71		26-90	6		50
2-Methylphenol	68		71		30-130.	4		50
3-Methylphenol/4-Methylphenol	73		76		30-130	4		50
2,4,5-Trichlorophenol	80		82		30-130	2		50
Benzoic Acid	**0**	Q	**0**	Q	10-110	NC		50
Benzyl Alcohol	75		78		40-140	4		50
Carbazole	74		77		54-128	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1566161-2 WG1566161-3								
1,4-Dioxane	45		45		40-140	0		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		72		25-120
Phenol-d6	73		77		10-120
Nitrobenzene-d5	70		74		23-120
2-Fluorobiphenyl	68		71		30-120
2,4,6-Tribromophenol	84		89		10-136
4-Terphenyl-d14	76		80		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

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Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-05,07 Batch: WG1566273-2 WG1566273-3								
Acenaphthene	44		42		31-137	5		50
1,2,4-Trichlorobenzene	44		45		38-107	2		50
Hexachlorobenzene	45		44		40-140	2		50
Bis(2-chloroethyl)ether	43		42		40-140	2		50
2-Chloronaphthalene	45		45		40-140	0		50
1,2-Dichlorobenzene	44		44		40-140	0		50
1,3-Dichlorobenzene	44		43		40-140	2		50
1,4-Dichlorobenzene	44		43		28-104	2		50
3,3'-Dichlorobenzidine	**33**	Q	**33**	Q	40-140	0		50
2,4-Dinitrotoluene	45		45		40-132	0		50
2,6-Dinitrotoluene	46		46		40-140	0		50
Fluoranthene	43		44		40-140	2		50
4-Chlorophenyl phenyl ether	43		44		40-140	2		50
4-Bromophenyl phenyl ether	44		44		40-140	0		50
Bis(2-chloroisopropyl)ether	40		**39**	Q	40-140	3		50
Bis(2-chloroethoxy)methane	45		44		40-117	2		50
Hexachlorobutadiene	47		46		40-140	2		50
Hexachlorocyclopentadiene	45		45		40-140	0		50
Hexachloroethane	45		44		40-140	2		50
Isophorone	43		44		40-140	2		50
Naphthalene	44		43		40-140	2		50
Nitrobenzene	44		43		40-140	2		50
NDPA/DPA	44		43		36-157	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-05,07 Batch: WG1566273-2 WG1566273-3								
n-Nitrosodi-n-propylamine	44		43		32-121	2		50
Bis(2-ethylhexyl)phthalate	40		40		40-140	0		50
Butyl benzyl phthalate	41		43		40-140	5		50
Di-n-butylphthalate	41		42		40-140	2		50
Di-n-octylphthalate	**38**	Q	**37**	Q	40-140	3		50
Diethyl phthalate	44		44		40-140	0		50
Dimethyl phthalate	45		45		40-140	0		50
Benzo(a)anthracene	42		42		40-140	0		50
Benzo(a)pyrene	46		44		40-140	4		50
Benzo(b)fluoranthene	45		44		40-140	2		50
Benzo(k)fluoranthene	45		44		40-140	2		50
Chrysene	44		43		40-140	2		50
Acenaphthylene	44		45		40-140	2		50
Anthracene	44		43		40-140	2		50
Benzo(ghi)perylene	46		42		40-140	9		50
Fluorene	44		43		40-140	2		50
Phenanthrene	43		42		40-140	2		50
Dibenzo(a,h)anthracene	45		42		40-140	7		50
Indeno(1,2,3-cd)pyrene	45		42		40-140	7		50
Pyrene	44		44		35-142	0		50
Biphenyl	46		46		37-127	0		50
4-Chloroaniline	43		43		40-140	0		50
2-Nitroaniline	**44**	Q	**44**	Q	47-134	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-05,07 Batch: WG1566273-2 WG1566273-3								
3-Nitroaniline	36		37		26-129	3		50
4-Nitroaniline	42		43		41-125	2		50
Dibenzofuran	44		43		40-140	2		50
2-Methylnaphthalene	45		44		40-140	2		50
1,2,4,5-Tetrachlorobenzene	46		46		40-117	0		50
Acetophenone	47		46		14-144	2		50
2,4,6-Trichlorophenol	46		46		30-130	0		50
p-Chloro-m-cresol	47		47		26-103	0		50
2-Chlorophenol	46		45		25-102	2		50
2,4-Dichlorophenol	47		47		30-130	0		50
2,4-Dimethylphenol	46		47		30-130	2		50
2-Nitrophenol	46		45		30-130	2		50
4-Nitrophenol	45		45		11-114	0		50
2,4-Dinitrophenol	29		35		4-130	19		50
4,6-Dinitro-o-cresol	43		45		10-130	5		50
Pentachlorophenol	44		46		17-109	4		50
Phenol	42		45		26-90	7		50
2-Methylphenol	46		45		30-130.	2		50
3-Methylphenol/4-Methylphenol	46		46		30-130	0		50
2,4,5-Trichlorophenol	46		47		30-130	2		50
Benzoic Acid	**0**	Q	**0**	Q	10-110	NC		50
Benzyl Alcohol	46		45		40-140	2		50
Carbazole	**43**	Q	**43**	Q	54-128	0		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-05,07 Batch: WG1566273-2 WG1566273-3								
1,4-Dioxane	**37**	Q	**34**	Q	40-140	8		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	47		46		25-120
Phenol-d6	49		48		10-120
Nitrobenzene-d5	43		43		23-120
2-Fluorobiphenyl	44		43		30-120
2,4,6-Tribromophenol	46		47		10-136
4-Terphenyl-d14	43		44		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05,07 Batch: WG1566474-2								
Perfluorobutanoic Acid (PFBA)	98		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	96		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	100		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	94		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	95		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	97		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	93		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	103		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	94		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	87		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	94		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	89		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	89		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	108		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	92		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	90		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	87		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	106		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	97		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	100		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	92		-		69-133	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05,07 Batch: WG1566474-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	85				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	88				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	109				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	95				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	100				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	101				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	95				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	114				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	96				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	108				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	56				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	96				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	21				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	58				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	79				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	63				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 06 Batch: WG1566997-2 WG1566997-3								
1,4-Dioxane	102		103		40-140	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	35		31		15-110

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06 Batch: WG1567003-2								
Perfluorobutanoic Acid (PFBA)	98		-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	95		-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	98		-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	94		-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	93		-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	95		-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	93		-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	100		-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	92		-		61-179	-		30
Perfluorononanoic Acid (PFNA)	88		-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	95		-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	85		-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	82		-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	102		-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	85		-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	91		-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	88		-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	99		-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	102		-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	104		-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	91		-		59-182	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06 Batch: WG1567003-2

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	99				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	107				62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	115				70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	105				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	104				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	104				71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	107				62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	122				14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	113				59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	104				69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	102				62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	141				10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	64				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103				55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	42				10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	68				27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	80				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	79				22-136

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1566161-6 WG1566161-7 QC Sample: L2159806-01 Client ID: EPSW02_ -6.5												
Acenaphthene	ND	1720	1200	70		1400	83		31-137	15		50
1,2,4-Trichlorobenzene	ND	1720	1200	70		1200	71		38-107	0		50
Hexachlorobenzene	ND	1720	1400	82		1400	83		40-140	0		50
Bis(2-chloroethyl)ether	ND	1720	1100	64		1100	65		40-140	0		50
2-Chloronaphthalene	ND	1720	1200	70		1300	77		40-140	8		50
1,2-Dichlorobenzene	ND	1720	1100	64		1200	71		40-140	9		50
1,3-Dichlorobenzene	ND	1720	1100	64		1200	71		40-140	9		50
1,4-Dichlorobenzene	ND	1720	1100	64		1100	65		28-104	0		50
3,3'-Dichlorobenzidine	ND	1720	1100	64		1300	77		40-140	17		50
2,4-Dinitrotoluene	ND	1720	1300	76		1300	77		40-132	0		50
2,6-Dinitrotoluene	ND	1720	1300	76		1300	77		40-140	0		50
Fluoranthene	ND	1720	1300	76		2700	**160**	Q	40-140	**70**	Q	50
4-Chlorophenyl phenyl ether	ND	1720	1200	70		1300	77		40-140	8		50
4-Bromophenyl phenyl ether	ND	1720	1400	82		1400	83		40-140	0		50
Bis(2-chloroisopropyl)ether	ND	1720	1000	58		1100	65		40-140	10		50
Bis(2-chloroethoxy)methane	ND	1720	1100	64		1100	65		40-117	0		50
Hexachlorobutadiene	ND	1720	1300	76		1400	83		40-140	7		50
Hexachlorocyclopentadiene	ND	1720	660	**38**	Q	340J	**20**	Q	40-140	**64**	Q	50
Hexachloroethane	ND	1720	1100	64		1200	71		40-140	9		50
Isophorone	ND	1720	1200	70		1200	71		40-140	0		50
Naphthalene	ND	1720	1200	70		1300	77		40-140	8		50
Nitrobenzene	ND	1720	1200	70		1200	71		40-140	0		50
NDPA/DPA	ND	1720	1200	70		1300	77		36-157	8		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1566161-6 WG1566161-7 QC Sample: L2159806-01 Client ID: EPSW02_ -6.5												
n-Nitrosodi-n-propylamine	ND	1720	1200	70		1200	71		32-121	0		50
Bis(2-ethylhexyl)phthalate	ND	1720	1400	82		1400	83		40-140	0		50
Butyl benzyl phthalate	ND	1720	1400	82		1400	83		40-140	0		50
Di-n-butylphthalate	ND	1720	1300	76		1400	83		40-140	7		50
Di-n-octylphthalate	ND	1720	1400	82		1400	83		40-140	0		50
Diethyl phthalate	ND	1720	1300	76		1300	77		40-140	0		50
Dimethyl phthalate	ND	1720	1200	70		1300	77		40-140	8		50
Benzo(a)anthracene	ND	1720	1300	76		1900	110		40-140	38		50
Benzo(a)pyrene	ND	1720	1300	76		1800	110		40-140	32		50
Benzo(b)fluoranthene	ND	1720	1400	82		2100	120		40-140	40		50
Benzo(k)fluoranthene	ND	1720	1200	70		1600	95		40-140	29		50
Chrysene	ND	1720	1200	70		1800	110		40-140	40		50
Acenaphthylene	ND	1720	1200	70		1300	77		40-140	8		50
Anthracene	ND	1720	1300	76		1500	89		40-140	14		50
Benzo(ghi)perylene	ND	1720	1400	82		1800	110		40-140	25		50
Fluorene	ND	1720	1300	76		1500	89		40-140	14		50
Phenanthrene	ND	1720	1200	70		2300	140		40-140	**63**	Q	50
Dibenzo(a,h)anthracene	ND	1720	1400	82		1500	89		40-140	7		50
Indeno(1,2,3-cd)pyrene	ND	1720	1200	70		1600	95		40-140	29		50
Pyrene	ND	1720	1300	76		2400	140		35-142	**59**	Q	50
Biphenyl	ND	1720	1300	76		1300	77		37-127	0		50
4-Chloroaniline	ND	1720	1300	76		1300	77		40-140	0		50
2-Nitroaniline	ND	1720	1400	82		1500	89		47-134	7		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1566161-6 WG1566161-7 QC Sample: L2159806-01 Client ID: EPSW02_ -6.5												
3-Nitroaniline	ND	1720	1200	70		1200	71		26-129	0		50
4-Nitroaniline	ND	1720	1200	70		1400	83		41-125	15		50
Dibenzofuran	ND	1720	1200	70		1400	83		40-140	15		50
2-Methylnaphthalene	ND	1720	1200	70		1300	77		40-140	8		50
1,2,4,5-Tetrachlorobenzene	ND	1720	1400	82		1400	83		40-117	0		50
Acetophenone	ND	1720	1200	70		1300	77		14-144	8		50
2,4,6-Trichlorophenol	ND	1720	1400	82		1500	89		30-130	7		50
p-Chloro-m-cresol	ND	1720	1400	82		1500	89		26-103	7		50
2-Chlorophenol	ND	1720	1200	70		1300	77		25-102	8		50
2,4-Dichlorophenol	ND	1720	1300	76		1400	83		30-130	7		50
2,4-Dimethylphenol	ND	1720	1200	70		1300	77		30-130	8		50
2-Nitrophenol	ND	1720	1200	70		1200	71		30-130	0		50
4-Nitrophenol	ND	1720	1300	76		1300	77		11-114	0		50
2,4-Dinitrophenol	ND	1720	ND	**0**	Q	ND	**0**	Q	4-130	NC		50
4,6-Dinitro-o-cresol	ND	1720	210J	12		190J	11		10-130	10		50
Pentachlorophenol	ND	1720	1000	58		1200	71		17-109	18		50
Phenol	ND	1720	1200	70		1200	71		26-90	0		50
2-Methylphenol	ND	1720	1200	70		1300	77		30-130.	8		50
3-Methylphenol/4-Methylphenol	ND	1720	1300	76		1400	83		30-130	7		50
2,4,5-Trichlorophenol	ND	1720	1400	82		1500	89		30-130	7		50
Benzoic Acid	ND	1720	ND	**0**	Q	ND	**0**	Q	10-110	NC		50
Benzyl Alcohol	ND	1720	1300	76		1400	83		40-140	7		50
Carbazole	ND	1720	1300	76		1400	83		54-128	7		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1566161-6 WG1566161-7 QC Sample: L2159806-01 Client ID: EPSW02_ -6.5												
1,4-Dioxane	ND	1720	700	41		760	45		40-140	8		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	84		88		10-136
2-Fluorobiphenyl	68		74		30-120
2-Fluorophenol	67		75		25-120
4-Terphenyl-d14	70		78		18-120
Nitrobenzene-d5	70		76		23-120
Phenol-d6	71		79		10-120

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05,07 QC Batch ID: WG1566474-3 WG1566474-4 QC Sample: L2159806-01 Client ID: EPSW02_ -6.5												
Perfluorobutanoic Acid (PFBA)	ND	5.9	5.77	98		6.23	99		71-135	8		30
Perfluoropentanoic Acid (PFPeA)	ND	5.9	5.68	96		6.06	97		69-132	6		30
Perfluorobutanesulfonic Acid (PFBS)	ND	5.24	5.28	101		5.56	100		72-128	5		30
Perfluorohexanoic Acid (PFHxA)	ND	5.9	5.59	95		5.98	95		70-132	7		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.9	5.62	95		5.88	94		71-131	5		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	5.4	5.26	98		5.52	96		67-130	5		30
Perfluorooctanoic Acid (PFOA)	ND	5.9	5.38	91		5.88	94		69-133	9		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.62	5.60	100		5.83	98		64-140	4		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.62	5.02	89		5.46	91		70-132	8		30
Perfluorononanoic Acid (PFNA)	ND	5.9	5.28	89		5.50	88		72-129	4		30
Perfluorooctanesulfonic Acid (PFOS)	ND	5.48	4.92	90		5.39	93		68-136	9		30
Perfluorodecanoic Acid (PFDA)	ND	5.9	5.12	87		5.69	91		69-133	11		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.67	4.52	80		5.27	88		65-137	15		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.9	5.33F	90		6.13	98		63-144	14		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.9	5.16	87		5.67	90		64-136	9		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.69	4.72	83		5.18	86		59-134	9		30
Perfluorooctanesulfonamide (FOSA)	ND	5.9	5.14	87		5.50	88		67-137	7		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.9	5.31	90		6.52	104		61-139	20		30
Perfluorododecanoic Acid (PFDoA)	ND	5.9	5.76	98		6.29	100		69-135	9		30
Perfluorotridecanoic Acid (PFTrDA)	ND	5.9	5.46	93		6.05	96		66-139	10		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.9	5.48	93		5.82	93		69-133	6		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05,07 QC Batch ID: WG1566474-3 WG1566474-4 QC Sample: L2159806-01 Client ID: EPSW02_ -6.5												

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	105		111		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	90		94		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	52		49		34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	58		52		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	98		95		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		92		75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	98		98		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	97		98		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	94		97		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	78		78		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	57		61		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	94		94		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	93		94		58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	61		60		10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		98		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		101		75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	107		110		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	101		106		74-139

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1567003-3 QC Sample: L2159165-01 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	38.8	37.7	97		-	-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	ND	38.8	37.3	96		-	-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	34.4	33.6	98		-	-		65-157	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	36.3	37.4	103		-	-		37-219	-		30
Perfluorohexanoic Acid (PFHxA)	ND	38.8	35.9	93		-	-		69-168	-		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	36.4	38.6	106		-	-		52-156	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	38.8	36.3	94		-	-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	35.4	33.2	94		-	-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	ND	38.8	36.0	93		-	-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	36.9	37.5	102		-	-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	36.9	35.0	95		-	-		61-179	-		30
Perfluorononanoic Acid (PFNA)	ND	38.8	33.8	87		-	-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	ND	36	34.6	96		-	-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	ND	38.8	33.5	86		-	-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	37.2	30.4	82		-	-		56-173	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	37.3	33.4	90		-	-		48-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	38.8	38.0F	98		-	-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	38.8	34.9	90		-	-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	37.4	33.6	90		-	-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	ND	38.8	33.9F	87		-	-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	38.8	37.3	96		-	-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	ND	38.8	39.6	102		-	-		67-153	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1567003-3 QC Sample: L2159165-01 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	38.8	39.1	101		-	-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	38.8	37.0	95		-	-		59-182	-		30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	378	393	104		-	-		57-162	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	36.6	33.1	90		-	-		69-143	-		30
Perfluorohexadecanoic Acid (PFHxDA)	ND	38.8	38.4	99		-	-		40-167	-		30
Perfluorooctadecanoic Acid (PFODA)	ND	38.8	30.6	79		-	-		10-119	-		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	129				10-162
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	104				12-142
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	106				14-147
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	81				10-165
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	58				27-126
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	55				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	92				55-137
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94				62-124
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	101				71-134
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	76				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	73				22-136
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	60				10-206

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1567003-3 QC Sample: L2159165-01 Client ID: MS Sample												

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
Perfluoro[13C4]Butanoic Acid (MPFBA)	83				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94				62-163
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	13				10-112
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100				69-131
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98				62-129
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	106				59-139
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	109				70-131

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1567003-4 QC Sample: L2159165-02 Client ID: DUP Sample						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/l	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/l	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/l	NC		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ng/l	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/l	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/l	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/l	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/l	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/l	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1567003-4 QC Sample: L2159165-02 Client ID: DUP Sample						
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/l	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/l	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	ND	ng/l	NC		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ND	ng/l	NC		30
Perfluorohexadecanoic Acid (PFHxDA)	ND	ND	ng/l	NC		30
Perfluorooctadecanoic Acid (PFODA)	ND	ND	ng/l	NC		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	84		88		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	96		99		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	113		111		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	99		100		12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		93		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92		96		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		102		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	96		101		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	101		101		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	103		106		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		101		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		95		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	122		123		10-162

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1567003-4 QC Sample: L2159165-02 Client ID: DUP Sample

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	55		53		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	93		96		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	16		13		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	57		54		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	77		77		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	69		69		22-136
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	94		106		10-165
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	52		50		10-206

PCBS

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-01
Client ID: EPSW02_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:00
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/03/21 09:49
Analyst: AWS
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 11/02/21 11:12
Cleanup Method: EPA 3665A
Cleanup Date: 11/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.2	3.66	1	A
Aroclor 1221	ND		ug/kg	41.2	4.12	1	A
Aroclor 1232	ND		ug/kg	41.2	8.73	1	A
Aroclor 1242	ND		ug/kg	41.2	5.55	1	A
Aroclor 1248	ND		ug/kg	41.2	6.18	1	A
Aroclor 1254	ND		ug/kg	41.2	4.50	1	A
Aroclor 1260	ND		ug/kg	41.2	7.61	1	A
Aroclor 1262	ND		ug/kg	41.2	5.23	1	A
Aroclor 1268	ND		ug/kg	41.2	4.26	1	A
PCBs, Total	ND		ug/kg	41.2	3.66	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-02
Client ID: EPSW10_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:10
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/03/21 11:56
Analyst: AWS
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 11/02/21 19:55
Cleanup Method: EPA 3665A
Cleanup Date: 11/03/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.3	3.76	1	A
Aroclor 1221	ND		ug/kg	42.3	4.24	1	A
Aroclor 1232	ND		ug/kg	42.3	8.97	1	A
Aroclor 1242	ND		ug/kg	42.3	5.71	1	A
Aroclor 1248	ND		ug/kg	42.3	6.35	1	A
Aroclor 1254	ND		ug/kg	42.3	4.63	1	A
Aroclor 1260	ND		ug/kg	42.3	7.82	1	A
Aroclor 1262	ND		ug/kg	42.3	5.38	1	A
Aroclor 1268	ND		ug/kg	42.3	4.38	1	A
PCBs, Total	ND		ug/kg	42.3	3.76	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-03
Client ID: EP06_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:20
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/04/21 12:42
Analyst: AD
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 11/03/21 19:57
Cleanup Method: EPA 3665A
Cleanup Date: 11/04/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/04/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.6	3.79	1	A
Aroclor 1221	ND		ug/kg	42.6	4.27	1	A
Aroclor 1232	ND		ug/kg	42.6	9.04	1	A
Aroclor 1242	ND		ug/kg	42.6	5.75	1	A
Aroclor 1248	ND		ug/kg	42.6	6.40	1	A
Aroclor 1254	ND		ug/kg	42.6	4.66	1	A
Aroclor 1260	ND		ug/kg	42.6	7.88	1	A
Aroclor 1262	ND		ug/kg	42.6	5.42	1	A
Aroclor 1268	ND		ug/kg	42.6	4.42	1	A
PCBs, Total	ND		ug/kg	42.6	3.79	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-04
Client ID: EP14_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:30
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/03/21 12:20
Analyst: AWS
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 11/02/21 19:55
Cleanup Method: EPA 3665A
Cleanup Date: 11/03/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.8	3.80	1	A
Aroclor 1221	ND		ug/kg	42.8	4.29	1	A
Aroclor 1232	ND		ug/kg	42.8	9.09	1	A
Aroclor 1242	ND		ug/kg	42.8	5.78	1	A
Aroclor 1248	ND		ug/kg	42.8	6.43	1	A
Aroclor 1254	ND		ug/kg	42.8	4.69	1	A
Aroclor 1260	ND		ug/kg	42.8	7.92	1	A
Aroclor 1262	ND		ug/kg	42.8	5.44	1	A
Aroclor 1268	ND		ug/kg	42.8	4.44	1	A
PCBs, Total	ND		ug/kg	42.8	3.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-05
Client ID: EPSW09_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:35
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/03/21 12:28
Analyst: AWS
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 11/02/21 19:55
Cleanup Method: EPA 3665A
Cleanup Date: 11/03/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.7	3.70	1	A
Aroclor 1221	ND		ug/kg	41.7	4.18	1	A
Aroclor 1232	ND		ug/kg	41.7	8.83	1	A
Aroclor 1242	ND		ug/kg	41.7	5.62	1	A
Aroclor 1248	ND		ug/kg	41.7	6.25	1	A
Aroclor 1254	ND		ug/kg	41.7	4.56	1	A
Aroclor 1260	ND		ug/kg	41.7	7.70	1	A
Aroclor 1262	ND		ug/kg	41.7	5.29	1	A
Aroclor 1268	ND		ug/kg	41.7	4.32	1	A
PCBs, Total	ND		ug/kg	41.7	3.70	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	52		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-06
Client ID: FB03_110121
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:40
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 11/02/21 16:36
Analyst: AD

Extraction Method: EPA 3510C
Extraction Date: 11/02/21 08:11
Cleanup Method: EPA 3665A
Cleanup Date: 11/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	B
PCBs, Total	ND		ug/l	0.071	0.061	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-07
Client ID: DUP02_110121
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 00:00
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/03/21 12:36
Analyst: AWS
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 11/02/21 19:55
Cleanup Method: EPA 3665A
Cleanup Date: 11/03/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	43.6	3.87	1	A
Aroclor 1221	ND		ug/kg	43.6	4.37	1	A
Aroclor 1232	ND		ug/kg	43.6	9.25	1	A
Aroclor 1242	ND		ug/kg	43.6	5.88	1	A
Aroclor 1248	ND		ug/kg	43.6	6.54	1	A
Aroclor 1254	ND		ug/kg	43.6	4.77	1	A
Aroclor 1260	ND		ug/kg	43.6	8.06	1	A
Aroclor 1262	ND		ug/kg	43.6	5.54	1	A
Aroclor 1268	ND		ug/kg	43.6	4.52	1	A
PCBs, Total	ND		ug/kg	43.6	3.87	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 11/02/21 16:09
Analyst: AD

Extraction Method: EPA 3510C
Extraction Date: 11/02/21 08:11
Cleanup Method: EPA 3665A
Cleanup Date: 11/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 06 Batch: WG1565953-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	B
PCBs, Total	ND		ug/l	0.071	0.061	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	44		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	45		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 11/03/21 09:25
Analyst: AWS

Extraction Method: EPA 3546
Extraction Date: 11/02/21 11:12
Cleanup Method: EPA 3665A
Cleanup Date: 11/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02,04-05,07 Batch: WG1566079-1						
Aroclor 1016	ND		ug/kg	32.1	2.85	A
Aroclor 1221	ND		ug/kg	32.1	3.22	A
Aroclor 1232	ND		ug/kg	32.1	6.81	A
Aroclor 1242	ND		ug/kg	32.1	4.33	A
Aroclor 1248	ND		ug/kg	32.1	4.82	A
Aroclor 1254	ND		ug/kg	32.1	3.52	A
Aroclor 1260	ND		ug/kg	32.1	5.94	A
Aroclor 1262	ND		ug/kg	32.1	4.08	A
Aroclor 1268	ND		ug/kg	32.1	3.33	A
PCBs, Total	ND		ug/kg	32.1	2.85	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 11/03/21 20:44
Analyst: AD

Extraction Method: EPA 3546
Extraction Date: 11/03/21 02:34
Cleanup Method: EPA 3665A
Cleanup Date: 11/03/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03 Batch: WG1566349-1						
Aroclor 1016	ND		ug/kg	32.9	2.92	A
Aroclor 1221	ND		ug/kg	32.9	3.30	A
Aroclor 1232	ND		ug/kg	32.9	6.98	A
Aroclor 1242	ND		ug/kg	32.9	4.44	A
Aroclor 1248	ND		ug/kg	32.9	4.94	A
Aroclor 1254	ND		ug/kg	32.9	3.60	A
Aroclor 1260	ND		ug/kg	32.9	6.09	A
Aroclor 1262	ND		ug/kg	32.9	4.18	A
Aroclor 1268	ND		ug/kg	32.9	3.41	A
PCBs, Total	ND		ug/kg	32.9	2.92	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	73		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 06 Batch: WG1565953-2 WG1565953-3									
Aroclor 1016	58		63		40-140	7		50	A
Aroclor 1260	61		64		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		50		30-150	A
Decachlorobiphenyl	59		65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	46		48		30-150	B
Decachlorobiphenyl	53		58		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02,04-05,07 Batch: WG1566079-2 WG1566079-3									
Aroclor 1016	104		71		40-140	38		50	A
Aroclor 1260	96		64		40-140	40		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		63		30-150	A
Decachlorobiphenyl	85		62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		65		30-150	B
Decachlorobiphenyl	78		56		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03 Batch: WG1566349-2 WG1566349-3									
Aroclor 1016	63		68		40-140	8		50	A
Aroclor 1260	68		73		40-140	7		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		63		30-150	A
Decachlorobiphenyl	66		71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		60		30-150	B
Decachlorobiphenyl	59		63		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Client ID: EPSW02_ -6.5	Associated sample(s): 01-02,04-05,07					QC Batch ID: WG1566079-4			WG1566079-5			QC Sample: L2159806-01	
Aroclor 1016	ND	264	229	87		218	83		40-140	5		50	A
Aroclor 1260	ND	264	208	79		210	80		40-140	1		50	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		71		30-150	A
Decachlorobiphenyl	73		73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		73		30-150	B
Decachlorobiphenyl	67		67		30-150	B

PESTICIDES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-01
Client ID: EPSW02_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:00
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/04/21 13:32
Analyst: AR
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 11/02/21 12:09
Cleanup Method: EPA 3620B
Cleanup Date: 11/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.99	0.389	1	A
Lindane	ND		ug/kg	0.828	0.370	1	A
Alpha-BHC	ND		ug/kg	0.828	0.235	1	A
Beta-BHC	ND		ug/kg	1.99	0.754	1	A
Heptachlor	ND		ug/kg	0.994	0.446	1	A
Aldrin	ND		ug/kg	1.99	0.700	1	A
Heptachlor epoxide	ND		ug/kg	3.73	1.12	1	A
Endrin	ND		ug/kg	0.828	0.340	1	A
Endrin aldehyde	ND		ug/kg	2.48	0.870	1	A
Endrin ketone	ND		ug/kg	1.99	0.512	1	A
Dieldrin	ND		ug/kg	1.24	0.621	1	A
4,4'-DDE	ND		ug/kg	1.99	0.460	1	A
4,4'-DDD	ND		ug/kg	1.99	0.709	1	A
4,4'-DDT	ND		ug/kg	3.73	1.60	1	A
Endosulfan I	ND		ug/kg	1.99	0.470	1	A
Endosulfan II	ND		ug/kg	1.99	0.664	1	A
Endosulfan sulfate	ND		ug/kg	0.828	0.394	1	A
Methoxychlor	ND		ug/kg	3.73	1.16	1	A
Toxaphene	ND		ug/kg	37.3	10.4	1	A
cis-Chlordane	ND		ug/kg	2.48	0.692	1	A
trans-Chlordane	ND		ug/kg	2.48	0.656	1	A
Chlordane	ND		ug/kg	16.6	6.58	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-01 Date Collected: 11/01/21 11:00

Client ID: EPSW02_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-01
Client ID: EPSW02_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:00
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/04/21 06:26
Analyst: AR
Percent Solids: 77%
Methylation Date: 11/03/21 16:27

Extraction Method: EPA 8151A
Extraction Date: 11/02/21 08:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	213	13.4	1	A
2,4,5-T	ND		ug/kg	213	6.60	1	A
2,4,5-TP (Silvex)	ND		ug/kg	213	5.66	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	83		30-150	A
DCAA	71		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-02
Client ID: EPSW10_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:10
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/03/21 15:52
Analyst: JAW
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 11/02/21 20:24
Cleanup Method: EPA 3620B
Cleanup Date: 11/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.00	0.392	1	B
Lindane	ND		ug/kg	0.833	0.372	1	B
Alpha-BHC	ND		ug/kg	0.833	0.236	1	B
Beta-BHC	ND		ug/kg	2.00	0.758	1	B
Heptachlor	ND		ug/kg	1.00	0.448	1	B
Aldrin	ND		ug/kg	2.00	0.704	1	B
Heptachlor epoxide	ND		ug/kg	3.75	1.12	1	B
Endrin	ND		ug/kg	0.833	0.342	1	B
Endrin aldehyde	ND		ug/kg	2.50	0.875	1	B
Endrin ketone	ND		ug/kg	2.00	0.515	1	B
Dieldrin	ND		ug/kg	1.25	0.625	1	B
4,4'-DDE	ND		ug/kg	2.00	0.462	1	B
4,4'-DDD	ND		ug/kg	2.00	0.713	1	B
4,4'-DDT	ND		ug/kg	3.75	1.61	1	B
Endosulfan I	ND		ug/kg	2.00	0.472	1	B
Endosulfan II	ND		ug/kg	2.00	0.668	1	B
Endosulfan sulfate	ND		ug/kg	0.833	0.396	1	B
Methoxychlor	ND		ug/kg	3.75	1.17	1	B
Toxaphene	ND		ug/kg	37.5	10.5	1	B
cis-Chlordane	ND		ug/kg	2.50	0.696	1	B
trans-Chlordane	ND		ug/kg	2.50	0.660	1	B
Chlordane	ND		ug/kg	16.7	6.62	1	B

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-02 Date Collected: 11/01/21 11:10

Client ID: EPSW10_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	38		30-150	A
Decachlorobiphenyl	**18**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-02
Client ID: EPSW10_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:10
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/04/21 07:20
Analyst: AR
Percent Solids: 78%
Methylation Date: 11/03/21 16:27

Extraction Method: EPA 8151A
Extraction Date: 11/02/21 08:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	213	13.4	1	A
2,4,5-T	ND		ug/kg	213	6.62	1	A
2,4,5-TP (Silvex)	ND		ug/kg	213	5.68	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	83		30-150	A
DCAA	71		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-03
Client ID: EP06_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:20
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/03/21 16:03
Analyst: JAW
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 11/02/21 20:24
Cleanup Method: EPA 3620B
Cleanup Date: 11/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.10	0.411	1	B
Lindane	ND		ug/kg	0.874	0.391	1	B
Alpha-BHC	ND		ug/kg	0.874	0.248	1	B
Beta-BHC	ND		ug/kg	2.10	0.796	1	B
Heptachlor	ND		ug/kg	1.05	0.470	1	B
Aldrin	ND		ug/kg	2.10	0.739	1	B
Heptachlor epoxide	ND		ug/kg	3.94	1.18	1	B
Endrin	ND		ug/kg	0.874	0.358	1	B
Endrin aldehyde	ND		ug/kg	2.62	0.918	1	B
Endrin ketone	ND		ug/kg	2.10	0.540	1	B
Dieldrin	ND		ug/kg	1.31	0.656	1	B
4,4'-DDE	ND		ug/kg	2.10	0.485	1	B
4,4'-DDD	ND		ug/kg	2.10	0.748	1	B
4,4'-DDT	ND		ug/kg	3.94	1.69	1	B
Endosulfan I	ND		ug/kg	2.10	0.496	1	B
Endosulfan II	ND		ug/kg	2.10	0.701	1	B
Endosulfan sulfate	ND		ug/kg	0.874	0.416	1	B
Methoxychlor	ND		ug/kg	3.94	1.22	1	B
Toxaphene	ND		ug/kg	39.4	11.0	1	B
cis-Chlordane	ND		ug/kg	2.62	0.731	1	B
trans-Chlordane	ND		ug/kg	2.62	0.692	1	B
Chlordane	ND		ug/kg	17.5	6.95	1	B

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-03 Date Collected: 11/01/21 11:20

Client ID: EP06_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	33		30-150	A
Decachlorobiphenyl	**22**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	48		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2159806
Project Number: 170599501
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-03
Client ID: EP06_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:20
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/04/21 08:52
Analyst: AR
Percent Solids: 75%
Methylation Date: 11/03/21 16:27

Extraction Method: EPA 8151A
Extraction Date: 11/02/21 08:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	217	13.7	1	A
2,4,5-T	ND		ug/kg	217	6.74	1	A
2,4,5-TP (Silvex)	ND		ug/kg	217	5.78	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	84		30-150	A
DCAA	71		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-04
Client ID: EP14_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:30
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/03/21 16:14
Analyst: JAW
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 11/02/21 20:24
Cleanup Method: EPA 3620B
Cleanup Date: 11/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.02	0.396	1	A
Lindane	ND		ug/kg	0.843	0.377	1	A
Alpha-BHC	ND		ug/kg	0.843	0.240	1	A
Beta-BHC	ND		ug/kg	2.02	0.767	1	A
Heptachlor	ND		ug/kg	1.01	0.454	1	A
Aldrin	ND		ug/kg	2.02	0.713	1	A
Heptachlor epoxide	ND		ug/kg	3.79	1.14	1	A
Endrin	ND		ug/kg	0.843	0.346	1	A
Endrin aldehyde	ND		ug/kg	2.53	0.885	1	A
Endrin ketone	ND		ug/kg	2.02	0.521	1	A
Dieldrin	ND		ug/kg	1.26	0.632	1	A
4,4'-DDE	ND		ug/kg	2.02	0.468	1	A
4,4'-DDD	ND		ug/kg	2.02	0.722	1	A
4,4'-DDT	ND		ug/kg	3.79	1.63	1	A
Endosulfan I	ND		ug/kg	2.02	0.478	1	A
Endosulfan II	ND		ug/kg	2.02	0.676	1	A
Endosulfan sulfate	ND		ug/kg	0.843	0.401	1	A
Methoxychlor	ND		ug/kg	3.79	1.18	1	A
Toxaphene	ND		ug/kg	37.9	10.6	1	A
cis-Chlordane	ND		ug/kg	2.53	0.705	1	A
trans-Chlordane	ND		ug/kg	2.53	0.668	1	A
Chlordane	ND		ug/kg	16.9	6.70	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-04 Date Collected: 11/01/21 11:30

Client ID: EP14_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	117		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2159806
Project Number: 170599501
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-04
Client ID: EP14_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:30
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/04/21 09:28
Analyst: AR
Percent Solids: 77%
Methylation Date: 11/03/21 16:27

Extraction Method: EPA 8151A
Extraction Date: 11/02/21 08:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	212	13.4	1	A
2,4,5-T	ND		ug/kg	212	6.58	1	A
2,4,5-TP (Silvex)	ND		ug/kg	212	5.65	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	84		30-150	A
DCAA	71		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-05
Client ID: EPSW09_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:35
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/03/21 16:25
Analyst: JAW
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 11/02/21 20:24
Cleanup Method: EPA 3620B
Cleanup Date: 11/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.02	0.395	1	B
Lindane	ND		ug/kg	0.840	0.375	1	B
Alpha-BHC	ND		ug/kg	0.840	0.238	1	B
Beta-BHC	ND		ug/kg	2.02	0.764	1	B
Heptachlor	ND		ug/kg	1.01	0.452	1	B
Aldrin	ND		ug/kg	2.02	0.710	1	B
Heptachlor epoxide	ND		ug/kg	3.78	1.13	1	B
Endrin	ND		ug/kg	0.840	0.344	1	B
Endrin aldehyde	ND		ug/kg	2.52	0.882	1	B
Endrin ketone	ND		ug/kg	2.02	0.519	1	B
Dieldrin	ND		ug/kg	1.26	0.630	1	B
4,4'-DDE	ND		ug/kg	2.02	0.466	1	B
4,4'-DDD	ND		ug/kg	2.02	0.719	1	B
4,4'-DDT	ND		ug/kg	3.78	1.62	1	B
Endosulfan I	ND		ug/kg	2.02	0.476	1	B
Endosulfan II	ND		ug/kg	2.02	0.673	1	B
Endosulfan sulfate	ND		ug/kg	0.840	0.400	1	B
Methoxychlor	ND		ug/kg	3.78	1.18	1	B
Toxaphene	ND		ug/kg	37.8	10.6	1	B
cis-Chlordane	ND		ug/kg	2.52	0.702	1	B
trans-Chlordane	ND		ug/kg	2.52	0.665	1	B
Chlordane	ND		ug/kg	16.8	6.68	1	B

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-05 Date Collected: 11/01/21 11:35

Client ID: EPSW09_ -6.5 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		30-150	A
Decachlorobiphenyl	**17**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-05
Client ID: EPSW09_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:35
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/04/21 09:46
Analyst: AR
Percent Solids: 76%
Methylation Date: 11/03/21 16:27

Extraction Method: EPA 8151A
Extraction Date: 11/02/21 08:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	215	13.5	1	A
2,4,5-T	ND		ug/kg	215	6.66	1	A
2,4,5-TP (Silvex)	ND		ug/kg	215	5.71	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	72		30-150	A
DCAA	60		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-06
Client ID: FB03_110121
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:40
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 11/02/21 20:52
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 11/02/21 08:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-06 Date Collected: 11/01/21 11:40

Client ID: FB03_110121 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	101		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	99		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2159806
Project Number: 170599501
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-06
Client ID: FB03_110121
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:40
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 11/04/21 12:01
Analyst: AR

Extraction Method: EPA 8151A
Extraction Date: 11/02/21 21:58

Methylation Date: 11/03/21 23:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	82		30-150	A
DCAA	73		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2159806
Project Number: 170599501
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-07
Client ID: DUP02_110121
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 00:00
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/03/21 16:36
Analyst: JAW
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 11/02/21 20:24
Cleanup Method: EPA 3620B
Cleanup Date: 11/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.08	0.406	1	B
Lindane	ND		ug/kg	0.865	0.386	1	B
Alpha-BHC	ND		ug/kg	0.865	0.246	1	B
Beta-BHC	ND		ug/kg	2.08	0.787	1	B
Heptachlor	ND		ug/kg	1.04	0.465	1	B
Aldrin	ND		ug/kg	2.08	0.731	1	B
Heptachlor epoxide	ND		ug/kg	3.89	1.17	1	B
Endrin	ND		ug/kg	0.865	0.354	1	B
Endrin aldehyde	ND		ug/kg	2.59	0.908	1	B
Endrin ketone	ND		ug/kg	2.08	0.534	1	B
Dieldrin	ND		ug/kg	1.30	0.648	1	B
4,4'-DDE	ND		ug/kg	2.08	0.480	1	B
4,4'-DDD	ND		ug/kg	2.08	0.740	1	B
4,4'-DDT	ND		ug/kg	3.89	1.67	1	B
Endosulfan I	ND		ug/kg	2.08	0.490	1	B
Endosulfan II	ND		ug/kg	2.08	0.693	1	B
Endosulfan sulfate	ND		ug/kg	0.865	0.412	1	B
Methoxychlor	ND		ug/kg	3.89	1.21	1	B
Toxaphene	ND		ug/kg	38.9	10.9	1	B
cis-Chlordane	ND		ug/kg	2.59	0.723	1	B
trans-Chlordane	ND		ug/kg	2.59	0.685	1	B
Chlordane	ND		ug/kg	17.3	6.87	1	B

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-07 Date Collected: 11/01/21 00:00

Client ID: DUP02_110121 Date Received: 11/01/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	35		30-150	A
Decachlorobiphenyl	**25**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2159806
Project Number: 170599501
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-07
Client ID: DUP02_110121
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 00:00
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/04/21 10:05
Analyst: AR
Percent Solids: 75%
Methylation Date: 11/03/21 16:27

Extraction Method: EPA 8151A
Extraction Date: 11/02/21 08:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	216	13.6	1	A
2,4,5-T	ND		ug/kg	216	6.69	1	A
2,4,5-TP (Silvex)	ND		ug/kg	216	5.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	78		30-150	A
DCAA	66		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/02/21 20:15
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 11/02/21 08:07

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 06 Batch: WG1565955-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/02/21 20:15
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 11/02/21 08:07

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 06 Batch: WG1565955-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	91		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 11/04/21 05:31
Analyst: AR

Extraction Method: EPA 8151A
Extraction Date: 11/02/21 08:51

Methylation Date: 11/03/21 16:27

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-05,07 Batch: WG1565985-1						
2,4-D	ND		ug/kg	163	10.3	A
2,4,5-T	ND		ug/kg	163	5.06	A
2,4,5-TP (Silvex)	ND		ug/kg	163	4.34	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	76		30-150	A
DCAA	67		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/04/21 12:59
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 11/02/21 12:09
Cleanup Method: EPA 3620B
Cleanup Date: 11/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05,07 Batch: WG1566119-1						
Delta-BHC	ND		ug/kg	1.59	0.311	A
Lindane	ND		ug/kg	0.662	0.296	A
Alpha-BHC	ND		ug/kg	0.662	0.188	A
Beta-BHC	ND		ug/kg	1.59	0.603	A
Heptachlor	ND		ug/kg	0.795	0.356	A
Aldrin	ND		ug/kg	1.59	0.560	A
Heptachlor epoxide	ND		ug/kg	2.98	0.894	A
Endrin	ND		ug/kg	0.662	0.272	A
Endrin aldehyde	ND		ug/kg	1.99	0.695	A
Endrin ketone	ND		ug/kg	1.59	0.409	A
Dieldrin	ND		ug/kg	0.993	0.497	A
4,4'-DDE	ND		ug/kg	1.59	0.368	A
4,4'-DDD	ND		ug/kg	1.59	0.567	A
4,4'-DDT	ND		ug/kg	2.98	1.28	A
Endosulfan I	ND		ug/kg	1.59	0.375	A
Endosulfan II	ND		ug/kg	1.59	0.531	A
Endosulfan sulfate	ND		ug/kg	0.662	0.315	A
Methoxychlor	ND		ug/kg	2.98	0.927	A
Toxaphene	ND		ug/kg	29.8	8.34	A
cis-Chlordane	ND		ug/kg	1.99	0.554	A
trans-Chlordane	ND		ug/kg	1.99	0.524	A
Chlordane	ND		ug/kg	13.2	5.26	A

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/04/21 12:59
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 11/02/21 12:09
Cleanup Method: EPA 3620B
Cleanup Date: 11/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05,07 Batch: WG1566119-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 11/04/21 11:05
Analyst: AR

Extraction Method: EPA 8151A
Extraction Date: 11/02/21 21:58

Methylation Date: 11/03/21 23:07

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 06 Batch: WG1566324-1						
2,4-D	ND		ug/l	10.0	0.498	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	73		30-150	A
DCAA	63		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 06 Batch: WG1565955-2 WG1565955-3									
Delta-BHC	47		46		30-150	2		20	A
Lindane	66		66		30-150	1		20	A
Alpha-BHC	67		66		30-150	2		20	A
Beta-BHC	86		83		30-150	3		20	A
Heptachlor	74		70		30-150	5		20	A
Aldrin	80		80		30-150	1		20	A
Heptachlor epoxide	71		71		30-150	0		20	A
Endrin	87		87		30-150	0		20	A
Endrin aldehyde	66		67		30-150	3		20	A
Endrin ketone	96		97		30-150	1		20	A
Dieldrin	75		76		30-150	1		20	A
4,4'-DDE	75		76		30-150	2		20	A
4,4'-DDD	75		76		30-150	1		20	A
4,4'-DDT	70		72		30-150	2		20	A
Endosulfan I	70		70		30-150	0		20	A
Endosulfan II	75		77		30-150	3		20	A
Endosulfan sulfate	75		77		30-150	2		20	A
Methoxychlor	99		99		30-150	1		20	A
cis-Chlordane	78		77		30-150	1		20	A
trans-Chlordane	92		92		30-150	0		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 06 Batch: WG1565955-2 WG1565955-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		86		30-150	A
Decachlorobiphenyl	96		98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		74		30-150	B
Decachlorobiphenyl	98		99		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-05,07 Batch: WG1565985-2 WG1565985-3									
2,4-D	86		84		30-150	2		30	A
2,4,5-T	87		85		30-150	2		30	A
2,4,5-TP (Silvex)	84		82		30-150	2		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	90		85		30-150	A
DCAA	80		74		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05,07 Batch: WG1566119-2 WG1566119-3									
Delta-BHC	87		85		30-150	2		30	A
Lindane	92		93		30-150	1		30	A
Alpha-BHC	91		93		30-150	2		30	A
Beta-BHC	90		92		30-150	2		30	A
Heptachlor	109		110		30-150	1		30	A
Aldrin	96		94		30-150	2		30	A
Heptachlor epoxide	70		70		30-150	0		30	A
Endrin	103		100		30-150	3		30	A
Endrin aldehyde	75		67		30-150	11		30	A
Endrin ketone	85		83		30-150	2		30	A
Dieldrin	104		101		30-150	3		30	A
4,4'-DDE	91		90		30-150	1		30	A
4,4'-DDD	108		105		30-150	3		30	A
4,4'-DDT	101		102		30-150	1		30	A
Endosulfan I	89		87		30-150	2		30	A
Endosulfan II	98		96		30-150	2		30	A
Endosulfan sulfate	80		75		30-150	6		30	A
Methoxychlor	92		91		30-150	1		30	A
cis-Chlordane	72		72		30-150	0		30	A
trans-Chlordane	104		104		30-150	0		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05,07 Batch: WG1566119-2 WG1566119-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		77		30-150	A
Decachlorobiphenyl	105		77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		68		30-150	B
Decachlorobiphenyl	78		73		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 06 Batch: WG1566324-2 WG1566324-3									
2,4-D	86		81		30-150	6		25	A
2,4,5-T	83		78		30-150	6		25	A
2,4,5-TP (Silvex)	89		84		30-150	6		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	84		87		30-150	A
DCAA	82		78		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1565985-4 WG1565985-5 QC Sample: L2159806-01 Client ID: EPSW02_ -6.5													
2,4-D	ND	210	177J	84		166J	78		30-150	6		30	A
2,4,5-T	ND	210	180J	86		166J	78		30-150	8		30	A
2,4,5-TP (Silvex)	ND	210	175J	83		161J	76		30-150	8		30	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
DCAA	87		81		30-150	A
DCAA	77		71		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1566119-6 WG1566119-7 QC Sample: L2159806-01 Client ID: EPSW02_ -6.5													
Delta-BHC	ND	41.9	17.3	41		22.7	55		30-150	27		50	A
Lindane	ND	41.9	25.2	60		34.7	83		30-150	32		50	A
Alpha-BHC	ND	41.9	24.1	58		33.6	81		30-150	33		50	A
Beta-BHC	ND	41.9	29.4	70		36.9	89		30-150	23		50	A
Heptachlor	ND	41.9	31.8	76		43.0	103		30-150	30		50	A
Aldrin	ND	41.9	26.2	63		37.0	89		30-150	34		50	A
Heptachlor epoxide	ND	41.9	19.6	47		27.5	66		30-150	34		50	A
Endrin	ND	41.9	29.2	70		41.0	99		30-150	34		50	A
Endrin aldehyde	ND	41.9	22.1	53		30.0	72		30-150	30		50	A
Endrin ketone	ND	41.9	25.8	62		35.7	86		30-150	32		50	A
Dieldrin	ND	41.9	28.8	69		41.0	99		30-150	35		50	A
4,4'-DDE	ND	41.9	25.1	60		35.8	86		30-150	35		50	A
4,4'-DDD	ND	41.9	30.8	74		42.5	102		30-150	32		50	A
4,4'-DDT	ND	41.9	29.3	70		40.9	98		30-150	33		50	A
Endosulfan I	ND	41.9	24.5	58		34.2	82		30-150	33		50	A
Endosulfan II	ND	41.9	28.1	67		38.6	93		30-150	31		50	A
Endosulfan sulfate	ND	41.9	24.3	58		33.1	80		30-150	31		50	A
Methoxychlor	ND	41.9	28.6	68		37.0	89		30-150	26		50	A
cis-Chlordane	ND	41.9	20.1	48		28.6	69		30-150	35		50	A
trans-Chlordane	ND	41.9	30.1	72		42.2	101		30-150	33		50	A

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1566119-6 WG1566119-7 QC Sample: L2159806-01 Client ID: EPSW02_ -6.5

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	51		75		30-150	A
Decachlorobiphenyl	63		82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		71		30-150	B
Decachlorobiphenyl	55		76		30-150	B

METALS

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-01
Client ID: EPSW02_ -6.5
Sample Location: BROOKLYN, NY
Date Collected: 11/01/21 11:00
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	744		mg/kg	10.2	2.77	2	11/05/21 22:05	11/08/21 10:43	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	5.12	0.390	2	11/05/21 22:05	11/08/21 10:43	EPA 3050B	1,6010D	GD
Arsenic, Total	0.512	J	mg/kg	1.02	0.213	2	11/05/21 22:05	11/08/21 10:43	EPA 3050B	1,6010D	GD
Barium, Total	2.20		mg/kg	1.02	0.178	2	11/05/21 22:05	11/08/21 10:43	EPA 3050B	1,6010D	GD
Beryllium, Total	ND		mg/kg	0.512	0.034	2	11/05/21 22:05	11/08/21 10:43	EPA 3050B	1,6010D	GD
Cadmium, Total	ND		mg/kg	1.02	0.100	2	11/05/21 22:05	11/08/21 10:43	EPA 3050B	1,6010D	GD
Calcium, Total	157		mg/kg	10.2	3.59	2	11/05/21 22:05	11/08/21 10:43	EPA 3050B	1,6010D	GD
Chromium, Total	2.22		mg/kg	1.02	0.098	2	11/05/21 22:05	11/08/21 10:43	EPA 3050B	1,6010D	GD
Cobalt, Total	0.820	J	mg/kg	2.05	0.170	2	11/05/21 22:05	11/08/21 10:43	EPA 3050B	1,6010D	GD
Copper, Total	1.21		mg/kg	1.02	0.264	2	11/05/21 22:05	11/08/21 10:43	EPA 3050B	1,6010D	GD
Iron, Total	1500		mg/kg	5.12	0.926	2	11/05/21 22:05	11/08/21 10:43	EPA 3050B	1,6010D	GD
Lead, Total	0.820	J	mg/kg	5.12	0.275	2	11/05/21 22:05	11/08/21 10:43	EPA 3050B	1,6010D	GD
Magnesium, Total	385		mg/kg	10.2	1.58	2	11/05/21 22:05	11/08/21 10:43	EPA 3050B	1,6010D	GD
Manganese, Total	11.2		mg/kg	1.02	0.163	2	11/05/21 22:05	11/08/21 10:43	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.085	0.055	1	11/05/21 22:18	11/06/21 13:24	EPA 7471B	1,7471B	NB
Nickel, Total	3.77		mg/kg	2.56	0.248	2	11/05/21 22:05	11/08/21 10:43	EPA 3050B	1,6010D	GD
Potassium, Total	124	J	mg/kg	256	14.8	2	11/05/21 22:05	11/08/21 10:43	EPA 3050B	1,6010D	GD
Selenium, Total	ND		mg/kg	2.05	0.264	2	11/05/21 22:05	11/08/21 10:43	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	1.02	0.290	2	11/05/21 22:05	11/08/21 10:43	EPA 3050B	1,6010D	GD
Sodium, Total	30.6	J	mg/kg	205	3.23	2	11/05/21 22:05	11/08/21 10:43	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	2.05	0.323	2	11/05/21 22:05	11/08/21 10:43	EPA 3050B	1,6010D	GD
Vanadium, Total	2.66		mg/kg	1.02	0.208	2	11/05/21 22:05	11/08/21 10:43	EPA 3050B	1,6010D	GD
Zinc, Total	50.2		mg/kg	5.12	0.300	2	11/05/21 22:05	11/08/21 10:43	EPA 3050B	1,6010D	GD
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.2		mg/kg	1.0	1.0	1		11/08/21 10:43	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-02
Client ID: EPSW10_ -6.5
Sample Location: BROOKLYN, NY
Date Collected: 11/01/21 11:10
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	874		mg/kg	10.0	2.70	2	11/02/21 19:26	11/03/21 14:32	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	5.01	0.381	2	11/02/21 19:26	11/03/21 14:32	EPA 3050B	1,6010D	GD
Arsenic, Total	0.581	J	mg/kg	1.00	0.208	2	11/02/21 19:26	11/03/21 14:32	EPA 3050B	1,6010D	GD
Barium, Total	4.42		mg/kg	1.00	0.174	2	11/02/21 19:26	11/03/21 14:32	EPA 3050B	1,6010D	GD
Beryllium, Total	0.050	J	mg/kg	0.501	0.033	2	11/02/21 19:26	11/03/21 14:32	EPA 3050B	1,6010D	GD
Cadmium, Total	ND		mg/kg	1.00	0.098	2	11/02/21 19:26	11/03/21 14:32	EPA 3050B	1,6010D	GD
Calcium, Total	404		mg/kg	10.0	3.51	2	11/02/21 19:26	11/03/21 14:32	EPA 3050B	1,6010D	GD
Chromium, Total	4.04		mg/kg	1.00	0.096	2	11/02/21 19:26	11/03/21 14:32	EPA 3050B	1,6010D	GD
Cobalt, Total	0.842	J	mg/kg	2.00	0.166	2	11/02/21 19:26	11/03/21 14:32	EPA 3050B	1,6010D	GD
Copper, Total	4.05		mg/kg	1.00	0.258	2	11/02/21 19:26	11/03/21 14:32	EPA 3050B	1,6010D	GD
Iron, Total	2140		mg/kg	5.01	0.905	2	11/02/21 19:26	11/03/21 14:32	EPA 3050B	1,6010D	GD
Lead, Total	29.1		mg/kg	5.01	0.268	2	11/02/21 19:26	11/03/21 14:32	EPA 3050B	1,6010D	GD
Magnesium, Total	431		mg/kg	10.0	1.54	2	11/02/21 19:26	11/03/21 14:32	EPA 3050B	1,6010D	GD
Manganese, Total	18.7		mg/kg	1.00	0.159	2	11/02/21 19:26	11/03/21 14:32	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.095	0.062	1	11/02/21 20:16	11/03/21 15:56	EPA 7471B	1,7471B	AC
Nickel, Total	3.52		mg/kg	2.50	0.242	2	11/02/21 19:26	11/03/21 14:32	EPA 3050B	1,6010D	GD
Potassium, Total	179	J	mg/kg	250	14.4	2	11/02/21 19:26	11/03/21 14:32	EPA 3050B	1,6010D	GD
Selenium, Total	0.661	J	mg/kg	2.00	0.258	2	11/02/21 19:26	11/03/21 14:32	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	1.00	0.284	2	11/02/21 19:26	11/03/21 14:32	EPA 3050B	1,6010D	GD
Sodium, Total	71.6	J	mg/kg	200	3.16	2	11/02/21 19:26	11/03/21 14:32	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	2.00	0.316	2	11/02/21 19:26	11/03/21 14:32	EPA 3050B	1,6010D	GD
Vanadium, Total	5.75		mg/kg	1.00	0.203	2	11/02/21 19:26	11/03/21 14:32	EPA 3050B	1,6010D	GD
Zinc, Total	10.6		mg/kg	5.01	0.294	2	11/02/21 19:26	11/03/21 14:32	EPA 3050B	1,6010D	GD
General Chemistry - Mansfield Lab											
Chromium, Trivalent	4.0		mg/kg	1.0	1.0	1		11/03/21 14:32	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-03
Client ID: EP06_ -6.5
Sample Location: BROOKLYN, NY
Date Collected: 11/01/21 11:20
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1460		mg/kg	10.2	2.76	2	11/02/21 19:26	11/03/21 14:37	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	5.12	0.389	2	11/02/21 19:26	11/03/21 14:37	EPA 3050B	1,6010D	GD
Arsenic, Total	1.20		mg/kg	1.02	0.213	2	11/02/21 19:26	11/03/21 14:37	EPA 3050B	1,6010D	GD
Barium, Total	3.68		mg/kg	1.02	0.178	2	11/02/21 19:26	11/03/21 14:37	EPA 3050B	1,6010D	GD
Beryllium, Total	0.072	J	mg/kg	0.512	0.034	2	11/02/21 19:26	11/03/21 14:37	EPA 3050B	1,6010D	GD
Cadmium, Total	ND		mg/kg	1.02	0.100	2	11/02/21 19:26	11/03/21 14:37	EPA 3050B	1,6010D	GD
Calcium, Total	477		mg/kg	10.2	3.58	2	11/02/21 19:26	11/03/21 14:37	EPA 3050B	1,6010D	GD
Chromium, Total	5.08		mg/kg	1.02	0.098	2	11/02/21 19:26	11/03/21 14:37	EPA 3050B	1,6010D	GD
Cobalt, Total	1.44	J	mg/kg	2.05	0.170	2	11/02/21 19:26	11/03/21 14:37	EPA 3050B	1,6010D	GD
Copper, Total	1.36		mg/kg	1.02	0.264	2	11/02/21 19:26	11/03/21 14:37	EPA 3050B	1,6010D	GD
Iron, Total	3540		mg/kg	5.12	0.924	2	11/02/21 19:26	11/03/21 14:37	EPA 3050B	1,6010D	GD
Lead, Total	1.85	J	mg/kg	5.12	0.274	2	11/02/21 19:26	11/03/21 14:37	EPA 3050B	1,6010D	GD
Magnesium, Total	704		mg/kg	10.2	1.58	2	11/02/21 19:26	11/03/21 14:37	EPA 3050B	1,6010D	GD
Manganese, Total	38.1		mg/kg	1.02	0.163	2	11/02/21 19:26	11/03/21 14:37	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.105	0.068	1	11/02/21 20:16	11/03/21 16:00	EPA 7471B	1,7471B	AC
Nickel, Total	4.91		mg/kg	2.56	0.248	2	11/02/21 19:26	11/03/21 14:37	EPA 3050B	1,6010D	GD
Potassium, Total	319		mg/kg	256	14.7	2	11/02/21 19:26	11/03/21 14:37	EPA 3050B	1,6010D	GD
Selenium, Total	ND		mg/kg	2.05	0.264	2	11/02/21 19:26	11/03/21 14:37	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	1.02	0.290	2	11/02/21 19:26	11/03/21 14:37	EPA 3050B	1,6010D	GD
Sodium, Total	184	J	mg/kg	205	3.22	2	11/02/21 19:26	11/03/21 14:37	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	2.05	0.322	2	11/02/21 19:26	11/03/21 14:37	EPA 3050B	1,6010D	GD
Vanadium, Total	6.50		mg/kg	1.02	0.208	2	11/02/21 19:26	11/03/21 14:37	EPA 3050B	1,6010D	GD
Zinc, Total	8.31		mg/kg	5.12	0.300	2	11/02/21 19:26	11/03/21 14:37	EPA 3050B	1,6010D	GD
General Chemistry - Mansfield Lab											
Chromium, Trivalent	5.1		mg/kg	1.1	1.1	1		11/03/21 14:37	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2159806
Project Number: 170599501
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-04
Client ID: EP14_ -6.5
Sample Location: BROOKLYN, NY
Date Collected: 11/01/21 11:30
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1940		mg/kg	10.3	2.78	2	11/02/21 19:26	11/03/21 14:43	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	5.14	0.391	2	11/02/21 19:26	11/03/21 14:43	EPA 3050B	1,6010D	GD
Arsenic, Total	1.52		mg/kg	1.03	0.214	2	11/02/21 19:26	11/03/21 14:43	EPA 3050B	1,6010D	GD
Barium, Total	4.25		mg/kg	1.03	0.179	2	11/02/21 19:26	11/03/21 14:43	EPA 3050B	1,6010D	GD
Beryllium, Total	0.134	J	mg/kg	0.514	0.034	2	11/02/21 19:26	11/03/21 14:43	EPA 3050B	1,6010D	GD
Cadmium, Total	0.113	J	mg/kg	1.03	0.101	2	11/02/21 19:26	11/03/21 14:43	EPA 3050B	1,6010D	GD
Calcium, Total	566		mg/kg	10.3	3.60	2	11/02/21 19:26	11/03/21 14:43	EPA 3050B	1,6010D	GD
Chromium, Total	6.02		mg/kg	1.03	0.099	2	11/02/21 19:26	11/03/21 14:43	EPA 3050B	1,6010D	GD
Cobalt, Total	2.50		mg/kg	2.06	0.171	2	11/02/21 19:26	11/03/21 14:43	EPA 3050B	1,6010D	GD
Copper, Total	1.74		mg/kg	1.03	0.265	2	11/02/21 19:26	11/03/21 14:43	EPA 3050B	1,6010D	GD
Iron, Total	4480		mg/kg	5.14	0.928	2	11/02/21 19:26	11/03/21 14:43	EPA 3050B	1,6010D	GD
Lead, Total	2.09	J	mg/kg	5.14	0.276	2	11/02/21 19:26	11/03/21 14:43	EPA 3050B	1,6010D	GD
Magnesium, Total	858		mg/kg	10.3	1.58	2	11/02/21 19:26	11/03/21 14:43	EPA 3050B	1,6010D	GD
Manganese, Total	52.7		mg/kg	1.03	0.163	2	11/02/21 19:26	11/03/21 14:43	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.093	0.061	1	11/02/21 20:16	11/03/21 16:03	EPA 7471B	1,7471B	AC
Nickel, Total	6.92		mg/kg	2.57	0.249	2	11/02/21 19:26	11/03/21 14:43	EPA 3050B	1,6010D	GD
Potassium, Total	393		mg/kg	257	14.8	2	11/02/21 19:26	11/03/21 14:43	EPA 3050B	1,6010D	GD
Selenium, Total	ND		mg/kg	2.06	0.265	2	11/02/21 19:26	11/03/21 14:43	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	1.03	0.291	2	11/02/21 19:26	11/03/21 14:43	EPA 3050B	1,6010D	GD
Sodium, Total	239		mg/kg	206	3.24	2	11/02/21 19:26	11/03/21 14:43	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	2.06	0.324	2	11/02/21 19:26	11/03/21 14:43	EPA 3050B	1,6010D	GD
Vanadium, Total	7.41		mg/kg	1.03	0.209	2	11/02/21 19:26	11/03/21 14:43	EPA 3050B	1,6010D	GD
Zinc, Total	19.2		mg/kg	5.14	0.301	2	11/02/21 19:26	11/03/21 14:43	EPA 3050B	1,6010D	GD
General Chemistry - Mansfield Lab											
Chromium, Trivalent	6.0		mg/kg	1.0	1.0	1		11/03/21 14:43	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2159806
Project Number: 170599501
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-05
Client ID: EPSW09_ -6.5
Sample Location: BROOKLYN, NY
Date Collected: 11/01/21 11:35
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2010		mg/kg	10.3	2.78	2	11/02/21 19:26	11/03/21 14:48	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	5.16	0.392	2	11/02/21 19:26	11/03/21 14:48	EPA 3050B	1,6010D	GD
Arsenic, Total	1.51		mg/kg	1.03	0.215	2	11/02/21 19:26	11/03/21 14:48	EPA 3050B	1,6010D	GD
Barium, Total	6.68		mg/kg	1.03	0.180	2	11/02/21 19:26	11/03/21 14:48	EPA 3050B	1,6010D	GD
Beryllium, Total	0.083	J	mg/kg	0.516	0.034	2	11/02/21 19:26	11/03/21 14:48	EPA 3050B	1,6010D	GD
Cadmium, Total	ND		mg/kg	1.03	0.101	2	11/02/21 19:26	11/03/21 14:48	EPA 3050B	1,6010D	GD
Calcium, Total	704		mg/kg	10.3	3.61	2	11/02/21 19:26	11/03/21 14:48	EPA 3050B	1,6010D	GD
Chromium, Total	6.98		mg/kg	1.03	0.099	2	11/02/21 19:26	11/03/21 14:48	EPA 3050B	1,6010D	GD
Cobalt, Total	1.77	J	mg/kg	2.06	0.171	2	11/02/21 19:26	11/03/21 14:48	EPA 3050B	1,6010D	GD
Copper, Total	2.34		mg/kg	1.03	0.266	2	11/02/21 19:26	11/03/21 14:48	EPA 3050B	1,6010D	GD
Iron, Total	4200		mg/kg	5.16	0.932	2	11/02/21 19:26	11/03/21 14:48	EPA 3050B	1,6010D	GD
Lead, Total	3.53	J	mg/kg	5.16	0.276	2	11/02/21 19:26	11/03/21 14:48	EPA 3050B	1,6010D	GD
Magnesium, Total	931		mg/kg	10.3	1.59	2	11/02/21 19:26	11/03/21 14:48	EPA 3050B	1,6010D	GD
Manganese, Total	42.0		mg/kg	1.03	0.164	2	11/02/21 19:26	11/03/21 14:48	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.098	0.064	1	11/02/21 20:16	11/03/21 16:06	EPA 7471B	1,7471B	AC
Nickel, Total	6.43		mg/kg	2.58	0.250	2	11/02/21 19:26	11/03/21 14:48	EPA 3050B	1,6010D	GD
Potassium, Total	446		mg/kg	258	14.8	2	11/02/21 19:26	11/03/21 14:48	EPA 3050B	1,6010D	GD
Selenium, Total	ND		mg/kg	2.06	0.266	2	11/02/21 19:26	11/03/21 14:48	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	1.03	0.292	2	11/02/21 19:26	11/03/21 14:48	EPA 3050B	1,6010D	GD
Sodium, Total	294		mg/kg	206	3.25	2	11/02/21 19:26	11/03/21 14:48	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	2.06	0.325	2	11/02/21 19:26	11/03/21 14:48	EPA 3050B	1,6010D	GD
Vanadium, Total	7.55		mg/kg	1.03	0.209	2	11/02/21 19:26	11/03/21 14:48	EPA 3050B	1,6010D	GD
Zinc, Total	11.4		mg/kg	5.16	0.302	2	11/02/21 19:26	11/03/21 14:48	EPA 3050B	1,6010D	GD
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.0		mg/kg	1.0	1.1	1		11/03/21 14:48	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2159806
Project Number: 170599501
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-06
Client ID: FB03_110121
Sample Location: BROOKLYN, NY
Date Collected: 11/01/21 11:40
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	11/03/21 16:32	11/03/21 22:00	EPA 3005A	1,6020B	CD
Antimony, Total	ND		mg/l	0.00400	0.00042	1	11/03/21 16:32	11/03/21 22:00	EPA 3005A	1,6020B	CD
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	11/03/21 16:32	11/03/21 22:00	EPA 3005A	1,6020B	CD
Barium, Total	ND		mg/l	0.00050	0.00017	1	11/03/21 16:32	11/03/21 22:00	EPA 3005A	1,6020B	CD
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	11/03/21 16:32	11/03/21 22:00	EPA 3005A	1,6020B	CD
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	11/03/21 16:32	11/03/21 22:00	EPA 3005A	1,6020B	CD
Calcium, Total	ND		mg/l	0.100	0.0394	1	11/03/21 16:32	11/03/21 22:00	EPA 3005A	1,6020B	CD
Chromium, Total	ND		mg/l	0.00100	0.00017	1	11/03/21 16:32	11/03/21 22:00	EPA 3005A	1,6020B	CD
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	11/03/21 16:32	11/03/21 22:00	EPA 3005A	1,6020B	CD
Copper, Total	ND		mg/l	0.00100	0.00038	1	11/03/21 16:32	11/03/21 22:00	EPA 3005A	1,6020B	CD
Iron, Total	ND		mg/l	0.0500	0.0191	1	11/03/21 16:32	11/03/21 22:00	EPA 3005A	1,6020B	CD
Lead, Total	ND		mg/l	0.00100	0.00034	1	11/03/21 16:32	11/03/21 22:00	EPA 3005A	1,6020B	CD
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	11/03/21 16:32	11/03/21 22:00	EPA 3005A	1,6020B	CD
Manganese, Total	ND		mg/l	0.00100	0.00044	1	11/03/21 16:32	11/03/21 22:00	EPA 3005A	1,6020B	CD
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/03/21 16:39	11/04/21 08:52	EPA 7470A	1,7470A	AC
Nickel, Total	ND		mg/l	0.00200	0.00055	1	11/03/21 16:32	11/03/21 22:00	EPA 3005A	1,6020B	CD
Potassium, Total	ND		mg/l	0.100	0.0309	1	11/03/21 16:32	11/03/21 22:00	EPA 3005A	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	11/03/21 16:32	11/03/21 22:00	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	11/03/21 16:32	11/03/21 22:00	EPA 3005A	1,6020B	CD
Sodium, Total	ND		mg/l	0.200	0.0293	1	11/03/21 16:32	11/03/21 22:00	EPA 3005A	1,6020B	CD
Thallium, Total	ND		mg/l	0.00100	0.00014	1	11/03/21 16:32	11/03/21 22:00	EPA 3005A	1,6020B	CD
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	11/03/21 16:32	11/03/21 22:00	EPA 3005A	1,6020B	CD
Zinc, Total	ND		mg/l	0.01000	0.00341	1	11/03/21 16:32	11/03/21 22:00	EPA 3005A	1,6020B	CD
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		11/03/21 22:00	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2159806
Project Number: 170599501
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-07
Client ID: DUP02_110121
Sample Location: BROOKLYN, NY
Date Collected: 11/01/21 00:00
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	945		mg/kg	10.4	2.81	2	11/02/21 19:26	11/03/21 14:53	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	5.21	0.396	2	11/02/21 19:26	11/03/21 14:53	EPA 3050B	1,6010D	GD
Arsenic, Total	0.333	J	mg/kg	1.04	0.217	2	11/02/21 19:26	11/03/21 14:53	EPA 3050B	1,6010D	GD
Barium, Total	4.80		mg/kg	1.04	0.181	2	11/02/21 19:26	11/03/21 14:53	EPA 3050B	1,6010D	GD
Beryllium, Total	ND		mg/kg	0.521	0.034	2	11/02/21 19:26	11/03/21 14:53	EPA 3050B	1,6010D	GD
Cadmium, Total	ND		mg/kg	1.04	0.102	2	11/02/21 19:26	11/03/21 14:53	EPA 3050B	1,6010D	GD
Calcium, Total	476		mg/kg	10.4	3.65	2	11/02/21 19:26	11/03/21 14:53	EPA 3050B	1,6010D	GD
Chromium, Total	3.94		mg/kg	1.04	0.100	2	11/02/21 19:26	11/03/21 14:53	EPA 3050B	1,6010D	GD
Cobalt, Total	0.844	J	mg/kg	2.08	0.173	2	11/02/21 19:26	11/03/21 14:53	EPA 3050B	1,6010D	GD
Copper, Total	1.96		mg/kg	1.04	0.269	2	11/02/21 19:26	11/03/21 14:53	EPA 3050B	1,6010D	GD
Iron, Total	1980		mg/kg	5.21	0.941	2	11/02/21 19:26	11/03/21 14:53	EPA 3050B	1,6010D	GD
Lead, Total	12.5		mg/kg	5.21	0.279	2	11/02/21 19:26	11/03/21 14:53	EPA 3050B	1,6010D	GD
Magnesium, Total	504		mg/kg	10.4	1.60	2	11/02/21 19:26	11/03/21 14:53	EPA 3050B	1,6010D	GD
Manganese, Total	20.1		mg/kg	1.04	0.166	2	11/02/21 19:26	11/03/21 14:53	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.092	0.060	1	11/02/21 20:16	11/03/21 16:10	EPA 7471B	1,7471B	AC
Nickel, Total	3.12		mg/kg	2.60	0.252	2	11/02/21 19:26	11/03/21 14:53	EPA 3050B	1,6010D	GD
Potassium, Total	219	J	mg/kg	260	15.0	2	11/02/21 19:26	11/03/21 14:53	EPA 3050B	1,6010D	GD
Selenium, Total	0.417	J	mg/kg	2.08	0.269	2	11/02/21 19:26	11/03/21 14:53	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	1.04	0.295	2	11/02/21 19:26	11/03/21 14:53	EPA 3050B	1,6010D	GD
Sodium, Total	95.5	J	mg/kg	208	3.28	2	11/02/21 19:26	11/03/21 14:53	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	2.08	0.328	2	11/02/21 19:26	11/03/21 14:53	EPA 3050B	1,6010D	GD
Vanadium, Total	4.30		mg/kg	1.04	0.212	2	11/02/21 19:26	11/03/21 14:53	EPA 3050B	1,6010D	GD
Zinc, Total	7.01		mg/kg	5.21	0.305	2	11/02/21 19:26	11/03/21 14:53	EPA 3050B	1,6010D	GD
General Chemistry - Mansfield Lab											
Chromium, Trivalent	3.9		mg/kg	1.1	1.1	1		11/03/21 14:53	NA	107,-	

Project Name: 1607 SURF AVENUE **Lab Number:** L2159806

Project Number: 170599501 **Report Date:** 11/08/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02-05,07 Batch: WG1566154-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	11/02/21 19:26	11/03/21 09:38	1,6010D	GD
Antimony, Total	ND		mg/kg	2.00	0.152	1	11/02/21 19:26	11/03/21 09:38	1,6010D	GD
Arsenic, Total	ND		mg/kg	0.400	0.083	1	11/02/21 19:26	11/03/21 09:38	1,6010D	GD
Barium, Total	ND		mg/kg	0.400	0.070	1	11/02/21 19:26	11/03/21 09:38	1,6010D	GD
Beryllium, Total	ND		mg/kg	0.200	0.013	1	11/02/21 19:26	11/03/21 09:38	1,6010D	GD
Cadmium, Total	ND		mg/kg	0.400	0.039	1	11/02/21 19:26	11/03/21 09:38	1,6010D	GD
Calcium, Total	ND		mg/kg	4.00	1.40	1	11/02/21 19:26	11/03/21 09:38	1,6010D	GD
Chromium, Total	ND		mg/kg	0.400	0.038	1	11/02/21 19:26	11/03/21 09:38	1,6010D	GD
Cobalt, Total	ND		mg/kg	0.800	0.066	1	11/02/21 19:26	11/03/21 09:38	1,6010D	GD
Copper, Total	ND		mg/kg	0.400	0.103	1	11/02/21 19:26	11/03/21 09:38	1,6010D	GD
Iron, Total	ND		mg/kg	2.00	0.361	1	11/02/21 19:26	11/03/21 09:38	1,6010D	GD
Lead, Total	ND		mg/kg	2.00	0.107	1	11/02/21 19:26	11/03/21 09:38	1,6010D	GD
Magnesium, Total	ND		mg/kg	4.00	0.616	1	11/02/21 19:26	11/03/21 09:38	1,6010D	GD
Manganese, Total	ND		mg/kg	0.400	0.064	1	11/02/21 19:26	11/03/21 09:38	1,6010D	GD
Nickel, Total	ND		mg/kg	1.00	0.097	1	11/02/21 19:26	11/03/21 09:38	1,6010D	GD
Potassium, Total	9.65	J	mg/kg	100	5.76	1	11/02/21 19:26	11/03/21 09:38	1,6010D	GD
Selenium, Total	ND		mg/kg	0.800	0.103	1	11/02/21 19:26	11/03/21 09:38	1,6010D	GD
Silver, Total	ND		mg/kg	0.400	0.113	1	11/02/21 19:26	11/03/21 09:38	1,6010D	GD
Sodium, Total	7.55	J	mg/kg	80.0	1.26	1	11/02/21 19:26	11/03/21 09:38	1,6010D	GD
Thallium, Total	ND		mg/kg	0.800	0.126	1	11/02/21 19:26	11/03/21 09:38	1,6010D	GD
Vanadium, Total	ND		mg/kg	0.400	0.081	1	11/02/21 19:26	11/03/21 09:38	1,6010D	GD
Zinc, Total	ND		mg/kg	2.00	0.117	1	11/02/21 19:26	11/03/21 09:38	1,6010D	GD

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02-05,07 Batch: WG1566155-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	11/02/21 20:16	11/03/21 15:00	1,7471B	AC

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 06 Batch: WG1566245-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	11/03/21 16:32	11/03/21 21:55	1,6020B	CD
Antimony, Total	ND		mg/l	0.00400	0.00042	1	11/03/21 16:32	11/03/21 21:55	1,6020B	CD
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	11/03/21 16:32	11/03/21 21:55	1,6020B	CD
Barium, Total	0.00050		mg/l	0.00050	0.00017	1	11/03/21 16:32	11/03/21 21:55	1,6020B	CD
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	11/03/21 16:32	11/03/21 21:55	1,6020B	CD
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	11/03/21 16:32	11/03/21 21:55	1,6020B	CD
Calcium, Total	ND		mg/l	0.100	0.0394	1	11/03/21 16:32	11/03/21 21:55	1,6020B	CD
Chromium, Total	ND		mg/l	0.00100	0.00017	1	11/03/21 16:32	11/03/21 21:55	1,6020B	CD
Cobalt, Total	0.00029	J	mg/l	0.00050	0.00016	1	11/03/21 16:32	11/03/21 21:55	1,6020B	CD
Copper, Total	ND		mg/l	0.00100	0.00038	1	11/03/21 16:32	11/03/21 21:55	1,6020B	CD
Iron, Total	ND		mg/l	0.0500	0.0191	1	11/03/21 16:32	11/03/21 21:55	1,6020B	CD
Lead, Total	ND		mg/l	0.00100	0.00034	1	11/03/21 16:32	11/03/21 21:55	1,6020B	CD
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	11/03/21 16:32	11/03/21 21:55	1,6020B	CD
Manganese, Total	ND		mg/l	0.00100	0.00044	1	11/03/21 16:32	11/03/21 21:55	1,6020B	CD
Nickel, Total	0.00056	J	mg/l	0.00200	0.00055	1	11/03/21 16:32	11/03/21 21:55	1,6020B	CD
Potassium, Total	ND		mg/l	0.100	0.0309	1	11/03/21 16:32	11/03/21 21:55	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	11/03/21 16:32	11/03/21 21:55	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	11/03/21 16:32	11/03/21 21:55	1,6020B	CD
Sodium, Total	ND		mg/l	0.200	0.0293	1	11/03/21 16:32	11/03/21 21:55	1,6020B	CD
Thallium, Total	ND		mg/l	0.00100	0.00014	1	11/03/21 16:32	11/03/21 21:55	1,6020B	CD
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	11/03/21 16:32	11/03/21 21:55	1,6020B	CD
Zinc, Total	ND		mg/l	0.01000	0.00341	1	11/03/21 16:32	11/03/21 21:55	1,6020B	CD

Prep Information

Digestion Method: EPA 3005A

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 06 Batch: WG1566247-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/03/21 16:39	11/04/21 08:03	1,7470A	AC

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1567871-1										
Aluminum, Total	3.07	J	mg/kg	4.00	1.08	1	11/05/21 22:05	11/08/21 10:20	1,6010D	GD
Antimony, Total	ND		mg/kg	2.00	0.152	1	11/05/21 22:05	11/08/21 10:20	1,6010D	GD
Arsenic, Total	ND		mg/kg	0.400	0.083	1	11/05/21 22:05	11/08/21 10:20	1,6010D	GD
Barium, Total	ND		mg/kg	0.400	0.070	1	11/05/21 22:05	11/08/21 10:20	1,6010D	GD
Beryllium, Total	ND		mg/kg	0.200	0.013	1	11/05/21 22:05	11/08/21 10:20	1,6010D	GD
Cadmium, Total	ND		mg/kg	0.400	0.039	1	11/05/21 22:05	11/08/21 10:20	1,6010D	GD
Calcium, Total	ND		mg/kg	4.00	1.40	1	11/05/21 22:05	11/08/21 10:20	1,6010D	GD
Chromium, Total	ND		mg/kg	0.400	0.038	1	11/05/21 22:05	11/08/21 10:20	1,6010D	GD
Cobalt, Total	ND		mg/kg	0.800	0.066	1	11/05/21 22:05	11/08/21 10:20	1,6010D	GD
Copper, Total	ND		mg/kg	0.400	0.103	1	11/05/21 22:05	11/08/21 10:20	1,6010D	GD
Iron, Total	6.24		mg/kg	2.00	0.361	1	11/05/21 22:05	11/08/21 10:20	1,6010D	GD
Lead, Total	ND		mg/kg	2.00	0.107	1	11/05/21 22:05	11/08/21 10:20	1,6010D	GD
Magnesium, Total	2.73	J	mg/kg	4.00	0.616	1	11/05/21 22:05	11/08/21 10:20	1,6010D	GD
Manganese, Total	0.072	J	mg/kg	0.400	0.064	1	11/05/21 22:05	11/08/21 10:20	1,6010D	GD
Nickel, Total	ND		mg/kg	1.00	0.097	1	11/05/21 22:05	11/08/21 10:20	1,6010D	GD
Potassium, Total	ND		mg/kg	100	5.76	1	11/05/21 22:05	11/08/21 10:20	1,6010D	GD
Selenium, Total	ND		mg/kg	0.800	0.103	1	11/05/21 22:05	11/08/21 10:20	1,6010D	GD
Silver, Total	ND		mg/kg	0.400	0.113	1	11/05/21 22:05	11/08/21 10:20	1,6010D	GD
Sodium, Total	3.80	J	mg/kg	80.0	1.26	1	11/05/21 22:05	11/08/21 10:20	1,6010D	GD
Thallium, Total	ND		mg/kg	0.800	0.126	1	11/05/21 22:05	11/08/21 10:20	1,6010D	GD
Vanadium, Total	ND		mg/kg	0.400	0.081	1	11/05/21 22:05	11/08/21 10:20	1,6010D	GD
Zinc, Total	ND		mg/kg	2.00	0.117	1	11/05/21 22:05	11/08/21 10:20	1,6010D	GD

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1567873-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	11/05/21 22:18	11/06/21 13:17	1,7471B	NB

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-05,07 Batch: WG1566154-2 SRM Lot Number: D109-540								
Aluminum, Total	74		-		50-150	-		
Antimony, Total	147		-		19-250	-		
Arsenic, Total	109		-		70-130	-		
Barium, Total	98		-		75-125	-		
Beryllium, Total	102		-		75-125	-		
Cadmium, Total	109		-		75-125	-		
Calcium, Total	100		-		73-128	-		
Chromium, Total	102		-		70-130	-		
Cobalt, Total	109		-		75-125	-		
Copper, Total	101		-		75-125	-		
Iron, Total	100		-		35-165	-		
Lead, Total	103		-		72-128	-		
Magnesium, Total	90		-		62-138	-		
Manganese, Total	105		-		74-126	-		
Nickel, Total	110		-		70-130	-		
Potassium, Total	90		-		59-141	-		
Selenium, Total	110		-		68-132	-		
Silver, Total	103		-		68-131	-		
Sodium, Total	107		-		35-165	-		
Thallium, Total	105		-		68-131	-		
Vanadium, Total	102		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-05,07 Batch: WG1566154-2 SRM Lot Number: D109-540					
Zinc, Total	106	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 02-05,07 Batch: WG1566155-2 SRM Lot Number: D109-540					
Mercury, Total	82	-	60-140	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 Batch: WG1566245-2					
Aluminum, Total	98	-	80-120	-	
Antimony, Total	90	-	80-120	-	
Arsenic, Total	106	-	80-120	-	
Barium, Total	99	-	80-120	-	
Beryllium, Total	95	-	80-120	-	
Cadmium, Total	101	-	80-120	-	
Calcium, Total	97	-	80-120	-	
Chromium, Total	100	-	80-120	-	
Cobalt, Total	100	-	80-120	-	
Copper, Total	105	-	80-120	-	
Iron, Total	103	-	80-120	-	
Lead, Total	99	-	80-120	-	
Magnesium, Total	101	-	80-120	-	
Manganese, Total	101	-	80-120	-	
Nickel, Total	101	-	80-120	-	
Potassium, Total	96	-	80-120	-	
Selenium, Total	95	-	80-120	-	
Silver, Total	102	-	80-120	-	
Sodium, Total	99	-	80-120	-	
Thallium, Total	94	-	80-120	-	
Vanadium, Total	101	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 Batch: WG1566245-2					
Zinc, Total	99	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 06 Batch: WG1566247-2					
Mercury, Total	102	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1567871-2 SRM Lot Number: D109-540					
Aluminum, Total	56	-	50-150	-	
Antimony, Total	120	-	19-250	-	
Arsenic, Total	98	-	70-130	-	
Barium, Total	83	-	75-125	-	
Beryllium, Total	88	-	75-125	-	
Cadmium, Total	101	-	75-125	-	
Calcium, Total	82	-	73-128	-	
Chromium, Total	89	-	70-130	-	
Cobalt, Total	98	-	75-125	-	
Copper, Total	86	-	75-125	-	
Iron, Total	79	-	35-165	-	
Lead, Total	92	-	72-128	-	
Magnesium, Total	74	-	62-138	-	
Manganese, Total	84	-	74-126	-	
Nickel, Total	97	-	70-130	-	
Potassium, Total	70	-	59-141	-	
Selenium, Total	97	-	68-132	-	
Silver, Total	89	-	68-131	-	
Sodium, Total	86	-	35-165	-	
Thallium, Total	98	-	68-131	-	
Vanadium, Total	85	-	59-141	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1567871-2 SRM Lot Number: D109-540					
Zinc, Total	94	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1567873-2 SRM Lot Number: D109-540					
Mercury, Total	94	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-05,07 QC Batch ID: WG1566154-3 WG1566154-4 QC Sample: L2159855-01 Client ID: MS Sample												
Aluminum, Total	3080	176	3740	**375**	Q	4220	**634**	Q	75-125	12		20
Antimony, Total	168	44	49.4	**0**	Q	46.6	**0**	Q	75-125	6		20
Arsenic, Total	7.48	10.5	45.1	**357**	Q	18.8	105		75-125	**82**	Q	20
Barium, Total	38.8	176	214	100		229	106		75-125	7		20
Beryllium, Total	0.984	4.4	5.21	96		6.18	116		75-125	17		20
Cadmium, Total	0.641J	4.66	5.70	122		5.20	109		75-125	9		20
Calcium, Total	19100	879	15000	**0**	Q	19600	**56**	Q	75-125	**27**	Q	20
Chromium, Total	38.0	17.6	62.8	**141**	Q	53.0	83		75-125	17		20
Cobalt, Total	11.0	44	59.7	111		53.6	95		75-125	11		20
Copper, Total	436	22	413	**0**	Q	400	**0**	Q	75-125	3		20
Iron, Total	13600	87.9	58600	**51200**	Q	15800	**2450**	Q	75-125	**115**	Q	20
Lead, Total	316	46.6	209	**0**	Q	258	**0**	Q	75-125	**21**	Q	20
Magnesium, Total	7660	879	4970	**0**	Q	5750	**0**	Q	75-125	15		20
Manganese, Total	162	44	476	**714**	Q	214	116		75-125	**76**	Q	20
Nickel, Total	56.6	44	166	**249**	Q	111	121		75-125	**40**	Q	20
Potassium, Total	546	879	2110	**178**	Q	1450	100		75-125	**37**	Q	20
Selenium, Total	0.550J	10.5	11.5	109		11.4	106		75-125	1		20
Silver, Total	ND	26.4	28.0	106		27.9	103		75-125	0		20
Sodium, Total	1130	879	2040	104		2310	**131**	Q	75-125	12		20
Thallium, Total	ND	10.5	9.56	91		9.88	92		75-125	3		20
Vanadium, Total	15.1	44	62.0	107		57.0	93		75-125	8		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-05,07 QC Batch ID: WG1566154-3 WG1566154-4 QC Sample: L2159855-01 Client ID: MS Sample											
Zinc, Total	749	44	788	89		792	96		75-125	1	20
Total Metals - Mansfield Lab Associated sample(s): 02-05,07 QC Batch ID: WG1566155-3 WG1566155-4 QC Sample: L2159855-01 Client ID: MS Sample											
Mercury, Total	0.613	0.17	0.683	**41**	Q	0.564	**0**	Q	80-120	19	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1566245-3 QC Sample: L2159806-06 Client ID: FB03_110121									
Aluminum, Total	ND	2	2.09	104	-	-	75-125	-	20
Antimony, Total	ND	0.5	0.4204	84	-	-	75-125	-	20
Arsenic, Total	ND	0.12	0.1256	105	-	-	75-125	-	20
Barium, Total	ND	2	2.046	102	-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.04781	96	-	-	75-125	-	20
Cadmium, Total	ND	0.053	0.05582	105	-	-	75-125	-	20
Calcium, Total	ND	10	9.69	97	-	-	75-125	-	20
Chromium, Total	ND	0.2	0.2105	105	-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.5247	105	-	-	75-125	-	20
Copper, Total	ND	0.25	0.2714	108	-	-	75-125	-	20
Iron, Total	ND	1	1.10	110	-	-	75-125	-	20
Lead, Total	ND	0.53	0.5054	95	-	-	75-125	-	20
Magnesium, Total	ND	10	10.4	104	-	-	75-125	-	20
Manganese, Total	ND	0.5	0.5283	106	-	-	75-125	-	20
Nickel, Total	ND	0.5	0.5342	107	-	-	75-125	-	20
Potassium, Total	ND	10	10.4	104	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.123	102	-	-	75-125	-	20
Silver, Total	ND	0.05	0.05338	107	-	-	75-125	-	20
Sodium, Total	ND	10	10.2	102	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.1154	96	-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.5282	106	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1566245-3 QC Sample: L2159806-06 Client ID: FB03_110121									
Zinc, Total	ND	0.5	0.5221	104	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1566247-3 QC Sample: L2159855-04 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00477	95	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1567871-3 WG1567871-4 QC Sample: L2159806-01 Client ID: EPSW02_ -6.5											
Aluminum, Total	744	201	1060	**157**	Q	1030	**143**	Q	75-125	3	20
Antimony, Total	ND	50.2	46.1	92		45.4	91		75-125	2	20
Arsenic, Total	0.512J	12	12.5	104		12.4	103		75-125	1	20
Barium, Total	2.20	201	195	96		194	96		75-125	1	20
Beryllium, Total	ND	5.02	4.69	93		4.62	92		75-125	2	20
Cadmium, Total	ND	5.32	5.24	98		5.15	97		75-125	2	20
Calcium, Total	157	1000	1170	101		1130	97		75-125	3	20
Chromium, Total	2.22	20.1	21.1	94		21.2	95		75-125	0	20
Cobalt, Total	0.820J	50.2	46.3	92		45.5	91		75-125	2	20
Copper, Total	1.21	25.1	24.3	92		24.2	92		75-125	0	20
Iron, Total	1500	100	1730	**229**	Q	1710	**210**	Q	75-125	1	20
Lead, Total	0.820J	53.2	51.1	96		50.0	94		75-125	2	20
Magnesium, Total	385	1000	1370	98		1370	98		75-125	0	20
Manganese, Total	11.2	50.2	58.0	93		57.9	93		75-125	0	20
Nickel, Total	3.77	50.2	50.0	92		49.1	91		75-125	2	20
Potassium, Total	124J	1000	1080	108		1090	109		75-125	1	20
Selenium, Total	ND	12	12.0	100		11.7	98		75-125	3	20
Silver, Total	ND	30.1	29.6	98		29.2	97		75-125	1	20
Sodium, Total	30.6J	1000	1030	102		1020	102		75-125	1	20
Thallium, Total	ND	12	11.5	95		11.2	93		75-125	3	20
Vanadium, Total	2.66	50.2	50.2	95		49.9	94		75-125	1	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1567871-3 WG1567871-4 QC Sample: L2159806-01 Client ID: EPSW02_ -6.5									
Zinc, Total	50.2	50.2	97.4	94	96.0	92	75-125	1	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1567873-3 WG1567873-4 QC Sample: L2159806-01 Client ID: EPSW02_ -6.5									
Mercury, Total	ND	0.17	0.194	114	0.198	113	80-120	2	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1566245-4 QC Sample: L2159806-06 Client ID: FB03_110121						
Aluminum, Total	ND	ND	mg/l	NC		20
Antimony, Total	ND	ND	mg/l	NC		20
Arsenic, Total	ND	ND	mg/l	NC		20
Barium, Total	ND	ND	mg/l	NC		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Calcium, Total	ND	ND	mg/l	NC		20
Chromium, Total	ND	ND	mg/l	NC		20
Cobalt, Total	ND	ND	mg/l	NC		20
Copper, Total	ND	ND	mg/l	NC		20
Iron, Total	ND	ND	mg/l	NC		20
Lead, Total	ND	ND	mg/l	NC		20
Magnesium, Total	ND	ND	mg/l	NC		20
Manganese, Total	ND	ND	mg/l	NC		20
Nickel, Total	ND	ND	mg/l	NC		20
Potassium, Total	ND	ND	mg/l	NC		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Sodium, Total	ND	ND	mg/l	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1566245-4 QC Sample: L2159806-06 Client ID: FB03_110121					
Thallium, Total	ND	ND	mg/l	NC	20
Vanadium, Total	ND	ND	mg/l	NC	20
Zinc, Total	ND	ND	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1566247-4 QC Sample: L2159855-04 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2159806
Report Date: 11/08/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-05,07 QC Batch ID: WG1566154-6 QC Sample: L2159855-01 Client ID: DUP Sample						
Aluminum, Total	3080	2970	mg/kg	4		20
Antimony, Total	168	165	mg/kg	2		20
Barium, Total	38.8	37.5	mg/kg	3		20
Calcium, Total	19100	18500	mg/kg	3		20
Chromium, Total	38.0	37.8	mg/kg	1		20
Copper, Total	436	414	mg/kg	5		20
Lead, Total	316	320	mg/kg	1		20
Magnesium, Total	7660	7630	mg/kg	0		20
Manganese, Total	162	160	mg/kg	1		20
Nickel, Total	56.6	57.4	mg/kg	1		20
Zinc, Total	749	758	mg/kg	1		20
Total Metals - Mansfield Lab Associated sample(s): 02-05,07 QC Batch ID: WG1566154-6 QC Sample: L2159855-01 Client ID: DUP Sample						
Iron, Total	13600	16300	mg/kg	20		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1567871-6 QC Sample: L2159806-01 Client ID: EPSW02_ -6.5						
Aluminum, Total	744	713	mg/kg	4		20
Iron, Total	1500	1440	mg/kg	4		20
Magnesium, Total	385	393	mg/kg	2		20

INORGANICS
&
MISCELLANEOUS

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-01
Client ID: EPSW02_ -6.5
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/01/21 11:00
Date Received: 11/01/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.0		%	0.100	NA	1	-	11/02/21 06:32	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	11/02/21 13:15	11/02/21 16:54	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	1.04	0.208	1	11/02/21 17:07	11/03/21 12:25	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-02
Client ID: EPSW10_ -6.5
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/01/21 11:10
Date Received: 11/01/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.5		%	0.100	NA	1	-	11/02/21 06:32	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.3	0.27	1	11/02/21 13:15	11/02/21 18:53	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	1.03	0.206	1	11/02/21 17:07	11/03/21 12:25	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-03
Client ID: EP06_ -6.5
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/01/21 11:20
Date Received: 11/01/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.5		%	0.100	NA	1	-	11/02/21 06:32	121,2540G	RI
Cyanide, Total	0.38	J	mg/kg	1.2	0.26	1	11/02/21 13:15	11/02/21 18:55	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	1.07	0.215	1	11/02/21 17:07	11/03/21 12:25	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-04
Client ID: EP14_ -6.5
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/01/21 11:30
Date Received: 11/01/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.7		%	0.100	NA	1	-	11/02/21 06:32	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	11/02/21 13:15	11/02/21 17:01	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	1.04	0.209	1	11/02/21 17:07	11/03/21 12:25	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-05
Client ID: EPSW09_ -6.5
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/01/21 11:35
Date Received: 11/01/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.9		%	0.100	NA	1	-	11/02/21 06:32	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.3	0.27	1	11/02/21 13:15	11/02/21 17:02	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	1.05	0.211	1	11/02/21 17:07	11/03/21 12:25	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-06
Client ID: FB03_110121
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 11:40
Date Received: 11/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	11/03/21 17:15	11/04/21 14:56	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	11/02/21 05:25	11/02/21 05:44	1,7196A	KA

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

SAMPLE RESULTS

Lab ID: L2159806-07
Client ID: DUP02_110121
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/01/21 00:00
Date Received: 11/01/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.2		%	0.100	NA	1	-	11/02/21 06:32	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.3	0.27	1	11/02/21 13:15	11/02/21 17:03	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	1.06	0.213	1	11/02/21 17:07	11/03/21 12:25	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2159806
Report Date: 11/08/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 06 Batch: WG1565870-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	11/02/21 05:25	11/02/21 05:41	1,7196A	KA
General Chemistry - Westborough Lab for sample(s): 01-05,07 Batch: WG1566057-1										
Cyanide, Total	ND		mg/kg	0.95	0.20	1	11/02/21 13:15	11/02/21 16:49	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 01-05,07 Batch: WG1566171-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	11/02/21 17:07	11/03/21 12:25	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 06 Batch: WG1566642-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	11/03/21 17:15	11/04/21 14:41	1,9010C/9012B	JO

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2159806

Report Date: 11/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG1565870-2								
Chromium, Hexavalent	103		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05,07 Batch: WG1566057-2 WG1566057-3								
Cyanide, Total	84		**69**	Q	80-120	18		35
General Chemistry - Westborough Lab Associated sample(s): 01-05,07 Batch: WG1566171-2								
Chromium, Hexavalent	94		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG1566642-2 WG1566642-3								
Cyanide, Total	98		99		85-115	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06 QC Batch ID: WG1565870-4 QC Sample: L2159806-06 Client ID: FB03_110121												
Chromium, Hexavalent	ND	0.1	0.105	105		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1566057-4 WG1566057-5 QC Sample: L2159806-01 Client ID: EPSW02_ -6.5												
Cyanide, Total	ND	13	14	110		13	110		75-125	7		35
General Chemistry - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1566171-4 WG1566171-5 QC Sample: L2159806-01 Client ID: EPSW02_ -6.5												
Chromium, Hexavalent	ND	1020	1050	103		1310	94		75-125	1		20
General Chemistry - Westborough Lab Associated sample(s): 06 QC Batch ID: WG1566642-4 WG1566642-5 QC Sample: L2159611-01 Client ID: MS Sample												
Cyanide, Total	0.004J	0.2	0.174	87		0.202	101		80-120	15		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06 QC Batch ID: WG1565870-3 QC Sample: L2159806-06 Client ID: FB03_110121						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1565888-1 QC Sample: L2159806-01 Client ID: EPSW02_ -6.5						
Solids, Total	77.0	75.7	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1566171-7 QC Sample: L2159806-01 Client ID: EPSW02_ -6.5						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2159806-01A	Vial MeOH preserved	C	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2159806-01A1	Vial MeOH preserved	C	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2159806-01A2	Vial MeOH preserved	C	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2159806-01B	Vial water preserved	C	NA		2.9	Y	Absent	02-NOV-21 03:34	NYTCL-8260HLW(14)
L2159806-01B1	Vial water preserved	C	NA		2.9	Y	Absent	02-NOV-21 03:34	NYTCL-8260HLW(14)
L2159806-01B2	Vial water preserved	C	NA		2.9	Y	Absent	02-NOV-21 03:34	NYTCL-8260HLW(14)
L2159806-01C	Vial water preserved	C	NA		2.9	Y	Absent	02-NOV-21 03:34	NYTCL-8260HLW(14)
L2159806-01C1	Vial water preserved	C	NA		2.9	Y	Absent	02-NOV-21 03:34	NYTCL-8260HLW(14)
L2159806-01C2	Vial water preserved	C	NA		2.9	Y	Absent	02-NOV-21 03:34	NYTCL-8260HLW(14)
L2159806-01D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2159806-01D1	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2159806-01D2	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2159806-01E	Plastic 120ml unpreserved	C	NA		2.9	Y	Absent		TS(7)
L2159806-01E1	Plastic 120ml unpreserved	C	NA		2.9	Y	Absent		TS(7)
L2159806-01E2	Plastic 120ml unpreserved	C	NA		2.9	Y	Absent		TS(7)
L2159806-01F	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TRICR-CALC(30),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2159806-01F1	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TRICR-CALC(30),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2159806-01F2	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TRICR-CALC(30),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2159806-01G	Glass 120ml/4oz unpreserved	C	NA		2.9	Y	Absent		HEXCR-7196(30)
L2159806-01G1	Glass 120ml/4oz unpreserved	C	NA		2.9	Y	Absent		HEXCR-7196(30)
L2159806-01G2	Glass 120ml/4oz unpreserved	C	NA		2.9	Y	Absent		HEXCR-7196(30)
L2159806-01H	Glass 500ml/16oz unpreserved	C	NA		2.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2159806-01H1	Glass 500ml/16oz unpreserved	C	NA		2.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2159806-01H2	Glass 500ml/16oz unpreserved	C	NA		2.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2159806-01J	Plastic 8oz unpreserved	A	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2159806-01J1	Plastic 8oz unpreserved	A	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2159806-01J2	Plastic 8oz unpreserved	A	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2159806-02A	Vial MeOH preserved	C	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2159806-02B	Vial water preserved	C	NA		2.9	Y	Absent	02-NOV-21 03:34	NYTCL-8260HLW(14)
L2159806-02C	Vial water preserved	C	NA		2.9	Y	Absent	02-NOV-21 03:34	NYTCL-8260HLW(14)
L2159806-02D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2159806-02E	Plastic 120ml unpreserved	C	NA		2.9	Y	Absent		TS(7)
L2159806-02F	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),TRICR-CALC(30),ZN-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NA-TI(180),CD-TI(180),CA-TI(180),K-TI(180)
L2159806-02G	Glass 120ml/4oz unpreserved	C	NA		2.9	Y	Absent		HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2159806-02H	Glass 500ml/16oz unpreserved	C	NA		2.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2159806-02J	Plastic 8oz unpreserved	A	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2159806-03A	Vial MeOH preserved	C	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2159806-03B	Vial water preserved	C	NA		2.9	Y	Absent	02-NOV-21 03:34	NYTCL-8260HLW(14)
L2159806-03C	Vial water preserved	C	NA		2.9	Y	Absent	02-NOV-21 03:34	NYTCL-8260HLW(14)
L2159806-03D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2159806-03E	Plastic 120ml unpreserved	C	NA		2.9	Y	Absent		TS(7)
L2159806-03F	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),AL-TI(180),CR-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2159806-03G	Glass 120ml/4oz unpreserved	C	NA		2.9	Y	Absent		HEXCR-7196(30)
L2159806-03H	Glass 500ml/16oz unpreserved	C	NA		2.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2159806-03J	Plastic 8oz unpreserved	A	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2159806-04A	Vial MeOH preserved	C	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2159806-04B	Vial water preserved	C	NA		2.9	Y	Absent	02-NOV-21 03:34	NYTCL-8260HLW(14)
L2159806-04C	Vial water preserved	C	NA		2.9	Y	Absent	02-NOV-21 03:34	NYTCL-8260HLW(14)
L2159806-04D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2159806-04E	Plastic 120ml unpreserved	C	NA		2.9	Y	Absent		TS(7)
L2159806-04F	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),TRICR-CALC(30),ZN-TI(180),PB-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2159806-04G	Glass 120ml/4oz unpreserved	C	NA		2.9	Y	Absent		HEXCR-7196(30)
L2159806-04H	Glass 500ml/16oz unpreserved	C	NA		2.9	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2159806-04J	Plastic 8oz unpreserved	A	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2159806-05A	Vial MeOH preserved	C	NA		2.9	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2159806-05B	Vial water preserved	C	NA		2.9	Y	Absent	02-NOV-21 03:34	NYTCL-8260HLW(14)
L2159806-05C	Vial water preserved	C	NA		2.9	Y	Absent	02-NOV-21 03:34	NYTCL-8260HLW(14)
L2159806-05D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2159806-05E	Plastic 120ml unpreserved	C	NA		2.9	Y	Absent		TS(7)
L2159806-05F	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),TRICR-CALC(30),AL-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),MN-TI(180),HG-T(28),NA-TI(180),K-TI(180),CD-TI(180),CA-TI(180)
L2159806-05G	Glass 120ml/4oz unpreserved	C	NA		2.9	Y	Absent		HEXCR-7196(30)
L2159806-05H	Glass 500ml/16oz unpreserved	C	NA		2.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2159806-05J	Plastic 8oz unpreserved	A	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2159806-06A	Vial HCl preserved	B	NA		3.1	Y	Absent		NYTCL-8260(14)
L2159806-06B	Vial HCl preserved	B	NA		3.1	Y	Absent		NYTCL-8260(14)
L2159806-06C	Vial HCl preserved	B	NA		3.1	Y	Absent		NYTCL-8260(14)
L2159806-06D	Plastic 250ml unpreserved	A	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2159806-06E	Amber 120ml unpreserved	B	7	7	3.1	Y	Absent		NYTCL-8081(7)
L2159806-06F	Amber 120ml unpreserved	B	7	7	3.1	Y	Absent		NYTCL-8081(7)
L2159806-06G	Amber 120ml unpreserved	B	7	7	3.1	Y	Absent		NYTCL-8082-LVI(365)
L2159806-06H	Amber 120ml unpreserved	B	7	7	3.1	Y	Absent		NYTCL-8082-LVI(365)
L2159806-06I	Amber 250ml unpreserved	B	7	7	3.1	Y	Absent		NYTCL-8270-LVI(7)
L2159806-06J	Amber 250ml unpreserved	B	7	7	3.1	Y	Absent		NYTCL-8270-LVI(7)
L2159806-06K	Amber 250ml unpreserved	B	7	7	3.1	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2159806-06L	Amber 250ml unpreserved	B	7	7	3.1	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2159806-06M	Plastic 250ml HNO3 preserved	B	<2	<2	3.1	Y	Absent		SE-6020T(180),BA-6020T(180),TL-6020T(180),FE-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),MG-6020T(180),HG-T(28),CO-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2159806-06N	Plastic 250ml NaOH preserved	B	>12	>12	3.1	Y	Absent		TCN-9010(14)
L2159806-06O	Plastic 500ml unpreserved	B	7	7	3.1	Y	Absent		HEXCR-7196(1)
L2159806-06P	Amber 1000ml unpreserved	B	7	7	3.1	Y	Absent		HERB-APA(7)
L2159806-06Q	Amber 1000ml unpreserved	B	7	7	3.1	Y	Absent		HERB-APA(7)
L2159806-07A	Vial MeOH preserved	B	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L2159806-07B	Vial water preserved	B	NA		3.1	Y	Absent	02-NOV-21 03:34	NYTCL-8260HLW(14)
L2159806-07C	Vial water preserved	B	NA		3.1	Y	Absent	02-NOV-21 03:34	NYTCL-8260HLW(14)
L2159806-07D	Plastic 2oz unpreserved for TS	B	NA		3.1	Y	Absent		TS(7)
L2159806-07E	Plastic 120ml unpreserved	B	NA		3.1	Y	Absent		TS(7)
L2159806-07F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),TRICR-CALC(30),SE-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2159806-07G	Glass 120ml/4oz unpreserved	B	NA		3.1	Y	Absent		HEXCR-7196(30)
L2159806-07H	Glass 500ml/16oz unpreserved	B	NA		3.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2159806-07J	Plastic 8oz unpreserved	B	NA		3.1	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2159806
Report Date: 11/08/21

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2159806
Project Number:	170599501	**Report Date:**	11/08/21

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:	1607 SURF AVENUE	**Lab Number:**	L2159806
Project Number:	170599501	**Report Date:**	11/08/21

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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2159806
Project Number:	170599501	**Report Date:**	11/08/21

Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2159806
Project Number:	170599501	**Report Date:**	11/08/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

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, SM4500Cl-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, **LACHAT 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

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

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 1

Date Rec'd in Lab: 11/01/21

ALPHA Job #: L2159806

Client Information
Client: LANGAN
Address: 3600 W 31st Street 8th Floor, NYC, NY
Phone: 212 479 5400
Fax: 212 479 5499
Email: KSemon@Langan.com

Project Information
Project Name: 1607 Surf Avenue
Project Location: Brooklyn, NY
Project #: 170599501
(Use Project name as Project #): ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date: All Analyses to be submitted on 5-day TAT including PFAS
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

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:
CC: Lesmail@Langan.com; Datamanagment@Langan.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs/SVOCs	TCL Pesticides	TAL metals	TCN	Hex/Tchromium	PFAS	1,4-dioxane	Herbs, PCBs	Sample Specific Comments	Total Bottle
59806-01	EPSW02 - -6.5	11/01/21	1100	S	AR									Runs MS/MSD	
-02	EPSW10 - -6.5	11/01/21	1110	S	AR										
-03	EP06 - -6.5	11/01/21	1120	S	AR										
-04	EP19 - -6.5	11/01/21	1130	S	AR										
-05	EPSW09 - -6.5	11/01/21	1135	S	AR										
-06	FB03 - 110121	11/01/21	1140	AQ	AR										
-07	DUP02 - 110121	11/01/21	—	S	AR										

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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								
Preservative								

Relinquished By:	Date/Time	Received By:	Date/Time
Ali Leeh (Langan)	11/01/21 1415	MSMA (AAL)	11/1/21 14:15
MSMA (AAL)	11/1/21 19:11	AAL & AAL	11/1 1930
AAL & AAL	11/1 2330		11/1/21 23:30

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2161168
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Kimberly Semon
Phone:	(212) 479-5486
Project Name:	1607 SURF AVENUE
Project Number:	170599501
Report Date:	11/11/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161168
Report Date: 11/11/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2161168-01	EP05_ -6.5	SOIL	BROOKLYN, NY	11/05/21 14:15	11/05/21
L2161168-02	EP13_ -6.5	SOIL	BROOKLYN, NY	11/05/21 14:25	11/05/21
L2161168-03	EPSW08_ -6.5	SOIL	BROOKLYN, NY	11/05/21 14:33	11/05/21
L2161168-04	EP12_ -6.5	SOIL	BROOKLYN, NY	11/05/21 14:47	11/05/21
L2161168-05	EP04_ -6.5	SOIL	BROOKLYN, NY	11/05/21 14:50	11/05/21
L2161168-06	EPSW07_ -6.5	SOIL	BROOKLYN, NY	11/05/21 14:52	11/05/21
L2161168-07	EP20_ -3	SOIL	BROOKLYN, NY	11/05/21 14:59	11/05/21
L2161168-08	EP27_ -3	SOIL	BROOKLYN, NY	11/05/21 15:06	11/05/21
L2161168-09	EP26_ -3	SOIL	BROOKLYN, NY	11/05/21 15:15	11/05/21
L2161168-10	EP25_ -3	SOIL	BROOKLYN, NY	11/05/21 15:25	11/05/21

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2161168
Project Number:	170599501	**Report Date:**	11/11/21

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:	1607 SURF AVENUE	**Lab Number:**	L2161168
Project Number:	170599501	**Report Date:**	11/11/21

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.

Sample Receipt

L2161168-01 through -10: The analysis of PFAS was requested; however, sample containers were not received. This was verified by the client.

Volatile Organics

L2161168-05: The original low-level analysis was a bad purge and, upon re-analysis, all internal standards failed. With the client's authorization, a sample aliquot was taken from an unpreserved jar and preserved appropriately. Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications. A high level analysis was performed, and those results are also reported.

Semivolatile Organics

The WG1568286-3 LCSD recovery, associated with L2161168-01 through -10, is below the acceptance criteria for benzoic acid (5%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Total Metals

L2161168-01 through -10: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

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: Kelly Stenstrom

Title: Technical Director/Representative Date: 11/11/21

ORGANICS

VOLATILES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-01
Client ID: EP05_ -6.5
Sample Location: BROOKLYN, NY
Date Collected: 11/05/21 14:15
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/11/21 09:01
Analyst: MV
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	8.1	3.7	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.23	1
Chloroform	ND		ug/kg	2.4	0.23	1
Carbon tetrachloride	ND		ug/kg	1.6	0.37	1
1,2-Dichloropropane	ND		ug/kg	1.6	0.20	1
Dibromochloromethane	ND		ug/kg	1.6	0.23	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.43	1
Tetrachloroethene	ND		ug/kg	0.81	0.32	1
Chlorobenzene	ND		ug/kg	0.81	0.20	1
Trichlorofluoromethane	ND		ug/kg	6.5	1.1	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.42	1
1,1,1-Trichloroethane	ND		ug/kg	0.81	0.27	1
Bromodichloromethane	ND		ug/kg	0.81	0.18	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	0.44	1
cis-1,3-Dichloropropene	ND		ug/kg	0.81	0.26	1
1,3-Dichloropropene, Total	ND		ug/kg	0.81	0.26	1
1,1-Dichloropropene	ND		ug/kg	0.81	0.26	1
Bromoform	ND		ug/kg	6.5	0.40	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.81	0.27	1
Benzene	ND		ug/kg	0.81	0.27	1
Toluene	ND		ug/kg	1.6	0.88	1
Ethylbenzene	ND		ug/kg	1.6	0.23	1
Chloromethane	ND		ug/kg	6.5	1.5	1
Bromomethane	ND		ug/kg	3.2	0.94	1
Vinyl chloride	ND		ug/kg	1.6	0.54	1
Chloroethane	ND		ug/kg	3.2	0.73	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.38	1
trans-1,2-Dichloroethene	ND		ug/kg	2.4	0.22	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-01 Date Collected: 11/05/21 14:15

Client ID: EP05_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.81	0.22	1
1,2-Dichlorobenzene	ND		ug/kg	3.2	0.23	1
1,3-Dichlorobenzene	ND		ug/kg	3.2	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	3.2	0.28	1
Methyl tert butyl ether	ND		ug/kg	3.2	0.32	1
p/m-Xylene	ND		ug/kg	3.2	0.90	1
o-Xylene	ND		ug/kg	1.6	0.47	1
Xylenes, Total	ND		ug/kg	1.6	0.47	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	0.28	1
1,2-Dichloroethene, Total	ND		ug/kg	1.6	0.22	1
Dibromomethane	ND		ug/kg	3.2	0.38	1
Styrene	ND		ug/kg	1.6	0.32	1
Dichlorodifluoromethane	ND		ug/kg	16	1.5	1
Acetone	8.3	J	ug/kg	16	7.8	1
Carbon disulfide	7.4	J	ug/kg	16	7.4	1
2-Butanone	ND		ug/kg	16	3.6	1
Vinyl acetate	ND		ug/kg	16	3.5	1
4-Methyl-2-pentanone	ND		ug/kg	16	2.1	1
1,2,3-Trichloropropane	ND		ug/kg	3.2	0.20	1
2-Hexanone	ND		ug/kg	16	1.9	1
Bromochloromethane	ND		ug/kg	3.2	0.33	1
2,2-Dichloropropane	ND		ug/kg	3.2	0.33	1
1,2-Dibromoethane	ND		ug/kg	1.6	0.45	1
1,3-Dichloropropane	ND		ug/kg	3.2	0.27	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.81	0.21	1
Bromobenzene	ND		ug/kg	3.2	0.23	1
n-Butylbenzene	ND		ug/kg	1.6	0.27	1
sec-Butylbenzene	ND		ug/kg	1.6	0.24	1
tert-Butylbenzene	ND		ug/kg	3.2	0.19	1
o-Chlorotoluene	ND		ug/kg	3.2	0.31	1
p-Chlorotoluene	ND		ug/kg	3.2	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.8	1.6	1
Hexachlorobutadiene	ND		ug/kg	6.5	0.27	1
Isopropylbenzene	ND		ug/kg	1.6	0.18	1
p-Isopropyltoluene	ND		ug/kg	1.6	0.18	1
Naphthalene	ND		ug/kg	6.5	1.0	1
Acrylonitrile	ND		ug/kg	6.5	1.9	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-01 Date Collected: 11/05/21 14:15

Client ID: EP05_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.6	0.28	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.2	0.52	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.2	0.44	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.2	0.31	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.2	0.54	1
1,4-Dioxane	ND		ug/kg	130	57.	1
p-Diethylbenzene	ND		ug/kg	3.2	0.29	1
p-Ethyltoluene	ND		ug/kg	3.2	0.62	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.2	0.31	1
Ethyl ether	ND		ug/kg	3.2	0.55	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	8.1	2.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	113		70-130

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-02
Client ID: EP13_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:25
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/11/21 09:27
Analyst: MV
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.14	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	ND		ug/kg	0.58	0.22	1
Chlorobenzene	ND		ug/kg	0.58	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.80	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	0.19	1
Bromodichloromethane	ND		ug/kg	0.58	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.58	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.58	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	0.19	1
Benzene	ND		ug/kg	0.58	0.19	1
Toluene	ND		ug/kg	1.2	0.62	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.67	1
Vinyl chloride	ND		ug/kg	1.2	0.38	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-02 Date Collected: 11/05/21 14:25

Client ID: EP13_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.2	0.33	1
Xylenes, Total	ND		ug/kg	1.2	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.2	0.22	1
Dichlorodifluoromethane	ND		ug/kg	12	1.0	1
Acetone	ND		ug/kg	12	5.5	1
Carbon disulfide	5.3	J	ug/kg	12	5.2	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.58	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.19	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.19	1
Isopropylbenzene	ND		ug/kg	1.2	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.12	1
Naphthalene	ND		ug/kg	4.6	0.75	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-02 Date Collected: 11/05/21 14:25

Client ID: EP13_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	92	40.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	113		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-03
Client ID: EPSW08_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:33
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/11/21 09:53
Analyst: MV
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.2	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.9	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.16	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	ND		ug/kg	0.62	0.24	1
Chlorobenzene	ND		ug/kg	0.62	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.86	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	0.21	1
Bromodichloromethane	ND		ug/kg	0.62	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.62	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.62	0.20	1
Bromoform	ND		ug/kg	5.0	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	0.21	1
Benzene	ND		ug/kg	0.62	0.21	1
Toluene	ND		ug/kg	1.2	0.68	1
Ethylbenzene	ND		ug/kg	1.2	0.18	1
Chloromethane	ND		ug/kg	5.0	1.2	1
Bromomethane	ND		ug/kg	2.5	0.72	1
Vinyl chloride	ND		ug/kg	1.2	0.42	1
Chloroethane	ND		ug/kg	2.5	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-03 Date Collected: 11/05/21 14:33

Client ID: EPSW08_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.62	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.70	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.5	0.30	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	7.9	J	ug/kg	12	6.0	1
Carbon disulfide	ND		ug/kg	12	5.7	1
2-Butanone	ND		ug/kg	12	2.8	1
Vinyl acetate	ND		ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	12	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.35	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.62	0.16	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.21	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.15	1
o-Chlorotoluene	ND		ug/kg	2.5	0.24	1
p-Chlorotoluene	ND		ug/kg	2.5	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.14	1
Naphthalene	ND		ug/kg	5.0	0.81	1
Acrylonitrile	ND		ug/kg	5.0	1.4	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-03 Date Collected: 11/05/21 14:33

Client ID: EPSW08_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1
1,4-Dioxane	ND		ug/kg	100	44.	1
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1
p-Ethyltoluene	ND		ug/kg	2.5	0.48	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.5	0.24	1
Ethyl ether	ND		ug/kg	2.5	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	115		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-04
Client ID: EP12_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:47
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/11/21 11:12
Analyst: MKS
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.4	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.88	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.21	1
Bromodichloromethane	ND		ug/kg	0.64	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.64	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.64	0.20	1
Bromoform	ND		ug/kg	5.1	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	0.21	1
Benzene	ND		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.69	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.1	1.2	1
Bromomethane	ND		ug/kg	2.5	0.74	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.5	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-04 Date Collected: 11/05/21 14:47

Client ID: EP12_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.64	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.26	1
p/m-Xylene	ND		ug/kg	2.5	0.71	1
o-Xylene	ND		ug/kg	1.3	0.37	1
Xylenes, Total	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.17	1
Dibromomethane	ND		ug/kg	2.5	0.30	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	6.9	J	ug/kg	13	6.1	1
Carbon disulfide	ND		ug/kg	13	5.8	1
2-Butanone	ND		ug/kg	13	2.8	1
Vinyl acetate	ND		ug/kg	13	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.64	0.17	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.15	1
o-Chlorotoluene	ND		ug/kg	2.5	0.24	1
p-Chlorotoluene	ND		ug/kg	2.5	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.1	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.1	0.83	1
Acrylonitrile	ND		ug/kg	5.1	1.5	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-04 Date Collected: 11/05/21 14:47

Client ID: EP12_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1
1,4-Dioxane	ND		ug/kg	100	45.	1
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1
p-Ethyltoluene	ND		ug/kg	2.5	0.49	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.5	0.24	1
Ethyl ether	ND		ug/kg	2.5	0.43	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**139**	Q	70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	119		70-130

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-05
Client ID: EP04_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:50
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/11/21 12:31
Analyst: MKS
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	360	160	1
1,1-Dichloroethane	ND		ug/kg	72	10.	1
Chloroform	ND		ug/kg	110	10.	1
Carbon tetrachloride	ND		ug/kg	72	17.	1
1,2-Dichloropropane	ND		ug/kg	72	9.1	1
Dibromochloromethane	ND		ug/kg	72	10.	1
1,1,2-Trichloroethane	ND		ug/kg	72	19.	1
Tetrachloroethene	ND		ug/kg	36	14.	1
Chlorobenzene	ND		ug/kg	36	9.2	1
Trichlorofluoromethane	ND		ug/kg	290	50.	1
1,2-Dichloroethane	ND		ug/kg	72	19.	1
1,1,1-Trichloroethane	ND		ug/kg	36	12.	1
Bromodichloromethane	ND		ug/kg	36	7.9	1
trans-1,3-Dichloropropene	ND		ug/kg	72	20.	1
cis-1,3-Dichloropropene	ND		ug/kg	36	11.	1
1,3-Dichloropropene, Total	ND		ug/kg	36	11.	1
1,1-Dichloropropene	ND		ug/kg	36	12.	1
Bromoform	ND		ug/kg	290	18.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	36	12.	1
Benzene	ND		ug/kg	36	12.	1
Toluene	ND		ug/kg	72	39.	1
Ethylbenzene	ND		ug/kg	72	10.	1
Chloromethane	ND		ug/kg	290	68.	1
Bromomethane	ND		ug/kg	140	42.	1
Vinyl chloride	ND		ug/kg	72	24.	1
Chloroethane	ND		ug/kg	140	33.	1
1,1-Dichloroethene	ND		ug/kg	72	17.	1
trans-1,2-Dichloroethene	ND		ug/kg	110	9.9	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-05 Date Collected: 11/05/21 14:50

Client ID: EP04_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	36	9.9	1
1,2-Dichlorobenzene	ND		ug/kg	140	10.	1
1,3-Dichlorobenzene	ND		ug/kg	140	11.	1
1,4-Dichlorobenzene	ND		ug/kg	140	12.	1
Methyl tert butyl ether	ND		ug/kg	140	14.	1
p/m-Xylene	ND		ug/kg	140	40.	1
o-Xylene	ND		ug/kg	72	21.	1
Xylenes, Total	ND		ug/kg	72	21.	1
cis-1,2-Dichloroethene	ND		ug/kg	72	13.	1
1,2-Dichloroethene, Total	ND		ug/kg	72	9.9	1
Dibromomethane	ND		ug/kg	140	17.	1
Styrene	ND		ug/kg	72	14.	1
Dichlorodifluoromethane	ND		ug/kg	720	66.	1
Acetone	ND		ug/kg	720	350	1
Carbon disulfide	ND		ug/kg	720	330	1
2-Butanone	ND		ug/kg	720	160	1
Vinyl acetate	ND		ug/kg	720	160	1
4-Methyl-2-pentanone	ND		ug/kg	720	93.	1
1,2,3-Trichloropropane	ND		ug/kg	140	9.2	1
2-Hexanone	ND		ug/kg	720	86.	1
Bromochloromethane	ND		ug/kg	140	15.	1
2,2-Dichloropropane	ND		ug/kg	140	15.	1
1,2-Dibromoethane	ND		ug/kg	72	20.	1
1,3-Dichloropropane	ND		ug/kg	140	12.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	36	9.6	1
Bromobenzene	ND		ug/kg	140	10.	1
n-Butylbenzene	ND		ug/kg	72	12.	1
sec-Butylbenzene	ND		ug/kg	72	10.	1
tert-Butylbenzene	ND		ug/kg	140	8.6	1
o-Chlorotoluene	ND		ug/kg	140	14.	1
p-Chlorotoluene	ND		ug/kg	140	7.8	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	220	72.	1
Hexachlorobutadiene	ND		ug/kg	290	12.	1
Isopropylbenzene	ND		ug/kg	72	7.9	1
p-Isopropyltoluene	ND		ug/kg	72	7.9	1
Naphthalene	ND		ug/kg	290	47.	1
Acrylonitrile	ND		ug/kg	290	83.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-05 Date Collected: 11/05/21 14:50

Client ID: EP04_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	72	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	140	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	140	20.	1
1,3,5-Trimethylbenzene	ND		ug/kg	140	14.	1
1,2,4-Trimethylbenzene	ND		ug/kg	140	24.	1
1,4-Dioxane	ND		ug/kg	5800	2500	1
p-Diethylbenzene	ND		ug/kg	140	13.	1
p-Ethyltoluene	ND		ug/kg	140	28.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	140	14.	1
Ethyl ether	ND		ug/kg	140	25.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	360	100	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	127		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	112		70-130

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-05
Client ID: EP04_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:50
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/11/21 12:57
Analyst: MKS
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.3	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.2	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.16	1
Dibromochloromethane	ND		ug/kg	1.2	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.34	1
Tetrachloroethene	ND		ug/kg	0.63	0.24	1
Chlorobenzene	ND		ug/kg	0.63	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.87	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.63	0.21	1
Bromodichloromethane	ND		ug/kg	0.63	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.63	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.63	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.63	0.20	1
Bromoform	ND		ug/kg	5.0	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.63	0.21	1
Benzene	ND		ug/kg	0.63	0.21	1
Toluene	ND		ug/kg	1.2	0.68	1
Ethylbenzene	ND		ug/kg	1.2	0.18	1
Chloromethane	ND		ug/kg	5.0	1.2	1
Bromomethane	ND		ug/kg	2.5	0.73	1
Vinyl chloride	ND		ug/kg	1.2	0.42	1
Chloroethane	ND		ug/kg	2.5	0.57	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-05 Date Collected: 11/05/21 14:50

Client ID: EP04_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.63	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.70	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.5	0.30	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	18		ug/kg	12	6.0	1
Carbon disulfide	ND		ug/kg	12	5.7	1
2-Butanone	ND		ug/kg	12	2.8	1
Vinyl acetate	ND		ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	12	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.35	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.63	0.16	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.21	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.15	1
o-Chlorotoluene	ND		ug/kg	2.5	0.24	1
p-Chlorotoluene	ND		ug/kg	2.5	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.2	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.14	1
Naphthalene	ND		ug/kg	5.0	0.82	1
Acrylonitrile	ND		ug/kg	5.0	1.4	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-05 Date Collected: 11/05/21 14:50

Client ID: EP04_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1
1,4-Dioxane	ND		ug/kg	100	44.	1
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1
p-Ethyltoluene	ND		ug/kg	2.5	0.48	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.5	0.24	1
Ethyl ether	ND		ug/kg	2.5	0.43	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.3	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	127		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	115		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-06
Client ID: EPSW07_ -6.5
Sample Location: BROOKLYN, NY
Date Collected: 11/05/21 14:52
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/11/21 11:38
Analyst: MKS
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.96	1
Bromomethane	ND		ug/kg	2.1	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-06 Date Collected: 11/05/21 14:52

Client ID: EPSW07_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.94	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.67	1
Acrylonitrile	ND		ug/kg	4.1	1.2	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-06 Date Collected: 11/05/21 14:52

Client ID: EPSW07_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.34	1
1,4-Dioxane	ND		ug/kg	83	36.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.18	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	115		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-07
Client ID: EP20_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:59
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/11/21 10:46
Analyst: MKS
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.5	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.35	1
Tetrachloroethene	ND		ug/kg	0.65	0.26	1
Chlorobenzene	ND		ug/kg	0.65	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.91	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.65	0.22	1
Bromodichloromethane	ND		ug/kg	0.65	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.65	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.65	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.65	0.21	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.65	0.22	1
Benzene	ND		ug/kg	0.65	0.22	1
Toluene	ND		ug/kg	1.3	0.71	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.2	1.2	1
Bromomethane	ND		ug/kg	2.6	0.76	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
Chloroethane	ND		ug/kg	2.6	0.59	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-07 Date Collected: 11/05/21 14:59

Client ID: EP20_ -3 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.65	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.73	1
o-Xylene	ND		ug/kg	1.3	0.38	1
Xylenes, Total	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.31	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	10	J	ug/kg	13	6.3	1
Carbon disulfide	12	J	ug/kg	13	6.0	1
2-Butanone	ND		ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.17	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.27	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.65	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.2	0.85	1
Acrylonitrile	ND		ug/kg	5.2	1.5	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-07 Date Collected: 11/05/21 14:59

Client ID: EP20_ -3 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.44	1
1,4-Dioxane	ND		ug/kg	100	46.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.50	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.25	1
Ethyl ether	ND		ug/kg	2.6	0.45	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.5	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	115		70-130

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-08
Client ID: EP27_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 15:06
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/11/21 12:04
Analyst: MKS
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.0	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.60	0.23	1
Chlorobenzene	ND		ug/kg	0.60	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.83	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	0.20	1
Bromodichloromethane	ND		ug/kg	0.60	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.60	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.60	0.19	1
Bromoform	ND		ug/kg	4.8	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	0.20	1
Benzene	ND		ug/kg	0.60	0.20	1
Toluene	ND		ug/kg	1.2	0.65	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.69	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.54	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-08 Date Collected: 11/05/21 15:06

Client ID: EP27_ -3 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.60	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.67	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.4	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.60	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	0.42	J	ug/kg	1.2	0.13	1
Naphthalene	0.97	J	ug/kg	4.8	0.78	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-08 Date Collected: 11/05/21 15:06

Client ID: EP27_ -3 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	96	42.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.46	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	127		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	116		70-130

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-09
Client ID: EP26_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 15:15
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/11/21 00:05
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.1	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	ND		ug/kg	0.61	0.24	1
Chlorobenzene	ND		ug/kg	0.61	0.16	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.85	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	0.20	1
Bromodichloromethane	ND		ug/kg	0.61	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.61	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.61	0.20	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	0.20	1
Benzene	ND		ug/kg	0.61	0.20	1
Toluene	ND		ug/kg	1.2	0.67	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.1	1
Bromomethane	ND		ug/kg	2.4	0.71	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.4	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-09 Date Collected: 11/05/21 15:15

Client ID: EP26_ -3 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.61	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.25	1
p/m-Xylene	ND		ug/kg	2.4	0.69	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.9	1
Carbon disulfide	8.0	J	ug/kg	12	5.6	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.16	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.61	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.9	0.80	1
Acrylonitrile	ND		ug/kg	4.9	1.4	1

Project Name: 1607 SURF AVENUE
Lab Number: L2161168
Project Number: 170599501
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-09
Client ID: EP26_ -3
Sample Location: BROOKLYN, NY
Date Collected: 11/05/21 15:15
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.41	1
1,4-Dioxane	ND		ug/kg	98	43.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.22	1
p-Ethyltoluene	ND		ug/kg	2.4	0.47	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**131**	Q	70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	114		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-10
Client ID: EP25_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 15:25
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/11/21 00:31
Analyst: JC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	17	7.9	1
1,1-Dichloroethane	ND		ug/kg	3.4	0.50	1
Chloroform	ND		ug/kg	5.2	0.48	1
Carbon tetrachloride	ND		ug/kg	3.4	0.79	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.43	1
Dibromochloromethane	ND		ug/kg	3.4	0.48	1
1,1,2-Trichloroethane	ND		ug/kg	3.4	0.92	1
Tetrachloroethene	ND		ug/kg	1.7	0.67	1
Chlorobenzene	ND		ug/kg	1.7	0.44	1
Trichlorofluoromethane	ND		ug/kg	14	2.4	1
1,2-Dichloroethane	ND		ug/kg	3.4	0.88	1
1,1,1-Trichloroethane	ND		ug/kg	1.7	0.57	1
Bromodichloromethane	ND		ug/kg	1.7	0.38	1
trans-1,3-Dichloropropene	ND		ug/kg	3.4	0.94	1
cis-1,3-Dichloropropene	ND		ug/kg	1.7	0.54	1
1,3-Dichloropropene, Total	ND		ug/kg	1.7	0.54	1
1,1-Dichloropropene	ND		ug/kg	1.7	0.55	1
Bromoform	ND		ug/kg	14	0.85	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.7	0.57	1
Benzene	ND		ug/kg	1.7	0.57	1
Toluene	ND		ug/kg	3.4	1.9	1
Ethylbenzene	ND		ug/kg	3.4	0.48	1
Chloromethane	ND		ug/kg	14	3.2	1
Bromomethane	ND		ug/kg	6.9	2.0	1
Vinyl chloride	ND		ug/kg	3.4	1.2	1
Chloroethane	ND		ug/kg	6.9	1.6	1
1,1-Dichloroethene	ND		ug/kg	3.4	0.82	1
trans-1,2-Dichloroethene	ND		ug/kg	5.2	0.47	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-10 Date Collected: 11/05/21 15:25

Client ID: EP25_ -3 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	1.7	0.47	1
1,2-Dichlorobenzene	ND		ug/kg	6.9	0.50	1
1,3-Dichlorobenzene	ND		ug/kg	6.9	0.51	1
1,4-Dichlorobenzene	ND		ug/kg	6.9	0.59	1
Methyl tert butyl ether	ND		ug/kg	6.9	0.69	1
p/m-Xylene	ND		ug/kg	6.9	1.9	1
o-Xylene	ND		ug/kg	3.4	1.0	1
Xylenes, Total	ND		ug/kg	3.4	1.0	1
cis-1,2-Dichloroethene	ND		ug/kg	3.4	0.60	1
1,2-Dichloroethene, Total	ND		ug/kg	3.4	0.47	1
Dibromomethane	ND		ug/kg	6.9	0.82	1
Styrene	ND		ug/kg	3.4	0.67	1
Dichlorodifluoromethane	ND		ug/kg	34	3.1	1
Acetone	ND		ug/kg	34	16.	1
Carbon disulfide	ND		ug/kg	34	16.	1
2-Butanone	ND		ug/kg	34	7.6	1
Vinyl acetate	ND		ug/kg	34	7.4	1
4-Methyl-2-pentanone	ND		ug/kg	34	4.4	1
1,2,3-Trichloropropane	ND		ug/kg	6.9	0.44	1
2-Hexanone	ND		ug/kg	34	4.1	1
Bromochloromethane	ND		ug/kg	6.9	0.70	1
2,2-Dichloropropane	ND		ug/kg	6.9	0.70	1
1,2-Dibromoethane	ND		ug/kg	3.4	0.96	1
1,3-Dichloropropane	ND		ug/kg	6.9	0.57	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.7	0.45	1
Bromobenzene	ND		ug/kg	6.9	0.50	1
n-Butylbenzene	ND		ug/kg	3.4	0.57	1
sec-Butylbenzene	ND		ug/kg	3.4	0.50	1
tert-Butylbenzene	ND		ug/kg	6.9	0.41	1
o-Chlorotoluene	ND		ug/kg	6.9	0.66	1
p-Chlorotoluene	ND		ug/kg	6.9	0.37	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	10	3.4	1
Hexachlorobutadiene	ND		ug/kg	14	0.58	1
Isopropylbenzene	ND		ug/kg	3.4	0.38	1
p-Isopropyltoluene	ND		ug/kg	3.4	0.38	1
Naphthalene	ND		ug/kg	14	2.2	1
Acrylonitrile	ND		ug/kg	14	4.0	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-10 Date Collected: 11/05/21 15:25

Client ID: EP25_ -3 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	3.4	0.59	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.9	1.1	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.9	0.94	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.9	0.66	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.9	1.1	1
1,4-Dioxane	ND		ug/kg	280	120	1
p-Diethylbenzene	ND		ug/kg	6.9	0.61	1
p-Ethyltoluene	ND		ug/kg	6.9	1.3	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.9	0.66	1
Ethyl ether	ND		ug/kg	6.9	1.2	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	17	4.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**142**	Q	70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	118		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/10/21 19:19
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-10 Batch: WG1570028-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/10/21 19:19
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-10 Batch: WG1570028-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	2.7	J	ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/10/21 19:19
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-10 Batch: WG1570028-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/11/21 07:43
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-08 Batch: WG1570059-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/11/21 07:43
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-08 Batch: WG1570059-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/11/21 07:43
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-08 Batch: WG1570059-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	106		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/11/21 07:43
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05 Batch: WG1570326-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/11/21 07:43
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05 Batch: WG1570326-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/11/21 07:43
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05 Batch: WG1570326-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	106		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2161168

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-10 Batch: WG1570028-3 WG1570028-4								
Methylene chloride	83		78		70-130	6		30
1,1-Dichloroethane	94		85		70-130	10		30
Chloroform	96		89		70-130	8		30
Carbon tetrachloride	103		93		70-130	10		30
1,2-Dichloropropane	90		85		70-130	6		30
Dibromochloromethane	87		86		70-130	1		30
1,1,2-Trichloroethane	88		89		70-130	1		30
Tetrachloroethene	98		88		70-130	11		30
Chlorobenzene	93		87		70-130	7		30
Trichlorofluoromethane	103		90		70-139	13		30
1,2-Dichloroethane	94		91		70-130	3		30
1,1,1-Trichloroethane	102		92		70-130	10		30
Bromodichloromethane	97		92		70-130	5		30
trans-1,3-Dichloropropene	87		85		70-130	2		30
cis-1,3-Dichloropropene	86		84		70-130	2		30
1,1-Dichloropropene	98		87		70-130	12		30
Bromoform	82		83		70-130	1		30
1,1,2,2-Tetrachloroethane	85		88		70-130	3		30
Benzene	91		83		70-130	9		30
Toluene	93		84		70-130	10		30
Ethylbenzene	98		88		70-130	11		30
Chloromethane	95		82		52-130	15		30
Bromomethane	75		66		57-147	13		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2161168

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-10 Batch: WG1570028-3 WG1570028-4								
Vinyl chloride	87		75		67-130	15		30
Chloroethane	86		73		50-151	16		30
1,1-Dichloroethene	90		80		65-135	12		30
trans-1,2-Dichloroethene	90		81		70-130	11		30
Trichloroethene	95		85		70-130	11		30
1,2-Dichlorobenzene	92		88		70-130	4		30
1,3-Dichlorobenzene	94		87		70-130	8		30
1,4-Dichlorobenzene	91		85		70-130	7		30
Methyl tert butyl ether	86		88		66-130	2		30
p/m-Xylene	99		91		70-130	8		30
o-Xylene	101		92		70-130	9		30
cis-1,2-Dichloroethene	90		83		70-130	8		30
Dibromomethane	87		87		70-130	0		30
Styrene	102		96		70-130	6		30
Dichlorodifluoromethane	93		80		30-146	15		30
Acetone	85		79		54-140	7		30
Carbon disulfide	87		77		59-130	12		30
2-Butanone	73		76		70-130	4		30
Vinyl acetate	89		92		70-130	3		30
4-Methyl-2-pentanone	72		76		70-130	5		30
1,2,3-Trichloropropane	87		88		68-130	1		30
2-Hexanone	**69**	Q	75		70-130	8		30
Bromochloromethane	90		86		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2161168

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-10 Batch: WG1570028-3 WG1570028-4								
2,2-Dichloropropane	102		91		70-130	11		30
1,2-Dibromoethane	83		84		70-130	1		30
1,3-Dichloropropane	90		89		69-130	1		30
1,1,1,2-Tetrachloroethane	101		95		70-130	6		30
Bromobenzene	92		88		70-130	4		30
n-Butylbenzene	100		90		70-130	11		30
sec-Butylbenzene	101		90		70-130	12		30
tert-Butylbenzene	101		91		70-130	10		30
o-Chlorotoluene	96		89		70-130	8		30
p-Chlorotoluene	96		88		70-130	9		30
1,2-Dibromo-3-chloropropane	72		76		68-130	5		30
Hexachlorobutadiene	103		90		67-130	13		30
Isopropylbenzene	101		90		70-130	12		30
p-Isopropyltoluene	103		92		70-130	11		30
Naphthalene	89		91		70-130	2		30
Acrylonitrile	83		86		70-130	4		30
n-Propylbenzene	99		89		70-130	11		30
1,2,3-Trichlorobenzene	93		90		70-130	3		30
1,2,4-Trichlorobenzene	94		90		70-130	4		30
1,3,5-Trimethylbenzene	102		92		70-130	10		30
1,2,4-Trimethylbenzene	100		93		70-130	7		30
1,4-Dioxane	73		80		65-136	9		30
p-Diethylbenzene	104		94		70-130	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2161168

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-10 Batch: WG1570028-3 WG1570028-4								
p-Ethyltoluene	103		92		70-130	11		30
1,2,4,5-Tetramethylbenzene	103		95		70-130	8		30
Ethyl ether	**66**	Q	**64**	Q	67-130	3		30
trans-1,4-Dichloro-2-butene	96		102		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	98		99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161168
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-08 Batch: WG1570059-3 WG1570059-4								
Methylene chloride	85		76		70-130	11		30
1,1-Dichloroethane	102		88		70-130	15		30
Chloroform	109		90		70-130	19		30
Carbon tetrachloride	130		105		70-130	21		30
1,2-Dichloropropane	98		87		70-130	12		30
Dibromochloromethane	99		91		70-130	8		30
1,1,2-Trichloroethane	94		89		70-130	5		30
Tetrachloroethene	111		94		70-130	17		30
Chlorobenzene	102		88		70-130	15		30
Trichlorofluoromethane	133		106		70-139	23		30
1,2-Dichloroethane	114		103		70-130	10		30
1,1,1-Trichloroethane	124		103		70-130	19		30
Bromodichloromethane	111		100		70-130	10		30
trans-1,3-Dichloropropene	95		89		70-130	7		30
cis-1,3-Dichloropropene	96		87		70-130	10		30
1,1-Dichloropropene	110		92		70-130	18		30
Bromoform	91		87		70-130	4		30
1,1,2,2-Tetrachloroethane	87		87		70-130	0		30
Benzene	97		84		70-130	14		30
Toluene	99		86		70-130	14		30
Ethylbenzene	106		92		70-130	14		30
Chloromethane	113		93		52-130	19		30
Bromomethane	89		73		57-147	20		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161168
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-08 Batch: WG1570059-3 WG1570059-4								
Vinyl chloride	104		84		67-130	21		30
Chloroethane	97		77		50-151	23		30
1,1-Dichloroethene	97		82		65-135	17		30
trans-1,2-Dichloroethene	97		82		70-130	17		30
Trichloroethene	107		92		70-130	15		30
1,2-Dichlorobenzene	101		92		70-130	9		30
1,3-Dichlorobenzene	103		91		70-130	12		30
1,4-Dichlorobenzene	100		89		70-130	12		30
Methyl tert butyl ether	94		89		66-130	5		30
p/m-Xylene	110		94		70-130	16		30
o-Xylene	110		96		70-130	14		30
cis-1,2-Dichloroethene	96		84		70-130	13		30
Dibromomethane	99		92		70-130	7		30
Styrene	112		98		70-130	13		30
Dichlorodifluoromethane	116		92		30-146	23		30
Acetone	100		100		54-140	0		30
Carbon disulfide	90		76		59-130	17		30
2-Butanone	92		85		70-130	8		30
Vinyl acetate	104		99		70-130	5		30
4-Methyl-2-pentanone	77		76		70-130	1		30
1,2,3-Trichloropropane	90		88		68-130	2		30
2-Hexanone	78		80		70-130	3		30
Bromochloromethane	98		90		70-130	9		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161168
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-08 Batch: WG1570059-3 WG1570059-4								
2,2-Dichloropropane	120		100		70-130	18		30
1,2-Dibromoethane	91		87		70-130	4		30
1,3-Dichloropropane	95		89		69-130	7		30
1,1,1,2-Tetrachloroethane	115		102		70-130	12		30
Bromobenzene	99		89		70-130	11		30
n-Butylbenzene	113		96		70-130	16		30
sec-Butylbenzene	108		93		70-130	15		30
tert-Butylbenzene	109		93		70-130	16		30
o-Chlorotoluene	104		90		70-130	14		30
p-Chlorotoluene	104		90		70-130	14		30
1,2-Dibromo-3-chloropropane	79		77		68-130	3		30
Hexachlorobutadiene	114		98		67-130	15		30
Isopropylbenzene	106		92		70-130	14		30
p-Isopropyltoluene	113		97		70-130	15		30
Naphthalene	97		94		70-130	3		30
Acrylonitrile	93		91		70-130	2		30
n-Propylbenzene	106		91		70-130	15		30
1,2,3-Trichlorobenzene	105		96		70-130	9		30
1,2,4-Trichlorobenzene	107		96		70-130	11		30
1,3,5-Trimethylbenzene	109		94		70-130	15		30
1,2,4-Trimethylbenzene	110		96		70-130	14		30
1,4-Dioxane	73		73		65-136	0		30
p-Diethylbenzene	117		99		70-130	17		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2161168

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-08 Batch: WG1570059-3 WG1570059-4								
p-Ethyltoluene	111		96		70-130	14		30
1,2,4,5-Tetramethylbenzene	114		99		70-130	14		30
Ethyl ether	72		67		67-130	7		30
trans-1,4-Dichloro-2-butene	109		109		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	113		112		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	97		97		70-130
Dibromofluoromethane	103		102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161168
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1570326-3 WG1570326-4								
Methylene chloride	85		76		70-130	11		30
1,1-Dichloroethane	102		88		70-130	15		30
Chloroform	109		90		70-130	19		30
Carbon tetrachloride	130		105		70-130	21		30
1,2-Dichloropropane	98		87		70-130	12		30
Dibromochloromethane	99		91		70-130	8		30
1,1,2-Trichloroethane	94		89		70-130	5		30
Tetrachloroethene	111		94		70-130	17		30
Chlorobenzene	102		88		70-130	15		30
Trichlorofluoromethane	133		106		70-139	23		30
1,2-Dichloroethane	114		103		70-130	10		30
1,1,1-Trichloroethane	124		103		70-130	19		30
Bromodichloromethane	111		100		70-130	10		30
trans-1,3-Dichloropropene	95		89		70-130	7		30
cis-1,3-Dichloropropene	96		87		70-130	10		30
1,1-Dichloropropene	110		92		70-130	18		30
Bromoform	91		87		70-130	4		30
1,1,2,2-Tetrachloroethane	87		87		70-130	0		30
Benzene	97		84		70-130	14		30
Toluene	99		86		70-130	14		30
Ethylbenzene	106		92		70-130	14		30
Chloromethane	113		93		52-130	19		30
Bromomethane	89		73		57-147	20		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2161168

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1570326-3 WG1570326-4								
Vinyl chloride	104		84		67-130	21		30
Chloroethane	97		77		50-151	23		30
1,1-Dichloroethene	97		82		65-135	17		30
trans-1,2-Dichloroethene	97		82		70-130	17		30
Trichloroethene	107		92		70-130	15		30
1,2-Dichlorobenzene	101		92		70-130	9		30
1,3-Dichlorobenzene	103		91		70-130	12		30
1,4-Dichlorobenzene	100		89		70-130	12		30
Methyl tert butyl ether	94		89		66-130	5		30
p/m-Xylene	110		94		70-130	16		30
o-Xylene	110		96		70-130	14		30
cis-1,2-Dichloroethene	96		84		70-130	13		30
Dibromomethane	99		92		70-130	7		30
Styrene	112		98		70-130	13		30
Dichlorodifluoromethane	116		92		30-146	23		30
Acetone	100		100		54-140	0		30
Carbon disulfide	90		76		59-130	17		30
2-Butanone	92		85		70-130	8		30
Vinyl acetate	104		99		70-130	5		30
4-Methyl-2-pentanone	77		76		70-130	1		30
1,2,3-Trichloropropane	90		88		68-130	2		30
2-Hexanone	78		80		70-130	3		30
Bromochloromethane	98		90		70-130	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2161168

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1570326-3 WG1570326-4								
2,2-Dichloropropane	120		100		70-130	18		30
1,2-Dibromoethane	91		87		70-130	4		30
1,3-Dichloropropane	95		89		69-130	7		30
1,1,1,2-Tetrachloroethane	115		102		70-130	12		30
Bromobenzene	99		89		70-130	11		30
n-Butylbenzene	113		96		70-130	16		30
sec-Butylbenzene	108		93		70-130	15		30
tert-Butylbenzene	109		93		70-130	16		30
o-Chlorotoluene	104		90		70-130	14		30
p-Chlorotoluene	104		90		70-130	14		30
1,2-Dibromo-3-chloropropane	79		77		68-130	3		30
Hexachlorobutadiene	114		98		67-130	15		30
Isopropylbenzene	106		92		70-130	14		30
p-Isopropyltoluene	113		97		70-130	15		30
Naphthalene	97		94		70-130	3		30
Acrylonitrile	93		91		70-130	2		30
n-Propylbenzene	106		91		70-130	15		30
1,2,3-Trichlorobenzene	105		96		70-130	9		30
1,2,4-Trichlorobenzene	107		96		70-130	11		30
1,3,5-Trimethylbenzene	109		94		70-130	15		30
1,2,4-Trimethylbenzene	110		96		70-130	14		30
1,4-Dioxane	73		73		65-136	0		30
p-Diethylbenzene	117		99		70-130	17		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2161168

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1570326-3 WG1570326-4								
p-Ethyltoluene	111		96		70-130	14		30
1,2,4,5-Tetramethylbenzene	114		99		70-130	14		30
Ethyl ether	72		67		67-130	7		30
trans-1,4-Dichloro-2-butene	109		109		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	113		112		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	97		97		70-130
Dibromofluoromethane	103		102		70-130

SEMIVOLATILES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-01
Client ID: EP05_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:15
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/10/21 13:34
Analyst: JG
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 02:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	35	J	ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	220	21.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	57.	1
2,4-Dinitrotoluene	ND		ug/kg	220	43.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	50	J	ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	54.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	73.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-01 Date Collected: 11/05/21 14:15

Client ID: EP05_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	45.	1
Benzo(a)anthracene	28	J	ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	30	J	ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	41	J	ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	54	J	ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	220	39.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	89.	1
Dibenzofuran	ND		ug/kg	220	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	22.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	190	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	71.	1
2-Nitrophenol	ND		ug/kg	470	81.	1
4-Nitrophenol	ND		ug/kg	300	88.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	220	32.	1
2-Methylphenol	ND		ug/kg	220	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1607 SURF AVENUE
Lab Number: L2161168
Project Number: 170599501
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-01
Client ID: EP05_ -6.5
Sample Location: BROOKLYN, NY
Date Collected: 11/05/21 14:15
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	41.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	220	66.	1
Carbazole	ND		ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	32	9.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	55		10-136
4-Terphenyl-d14	52		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-02
Client ID: EP13_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:25
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/10/21 13:58
Analyst: JG
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 02:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	38	J	ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	37.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	350		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	43	J	ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	72.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-02 Date Collected: 11/05/21 14:25

Client ID: EP13_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	140		ug/kg	120	23.	1
Benzo(a)pyrene	120	J	ug/kg	170	51.	1
Benzo(b)fluoranthene	160		ug/kg	120	35.	1
Benzo(k)fluoranthene	71	J	ug/kg	120	33.	1
Chrysene	150		ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	57	J	ug/kg	120	41.	1
Benzo(ghi)perylene	84	J	ug/kg	170	24.	1
Fluorene	36	J	ug/kg	210	20.	1
Phenanthrene	230		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	81	J	ug/kg	170	29.	1
Pyrene	280		ug/kg	120	21.	1
Biphenyl	ND		ug/kg	480	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	21	J	ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	78.	1
4-Nitrophenol	ND		ug/kg	290	85.	1
2,4-Dinitrophenol	ND		ug/kg	1000	97.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 1607 SURF AVENUE
Lab Number: L2161168
Project Number: 170599501
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-02
Client ID: EP13_ -6.5
Sample Location: BROOKLYN, NY
Date Collected: 11/05/21 14:25
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	28	J	ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	31	9.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	63		10-136
4-Terphenyl-d14	57		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-03
Client ID: EPSW08_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:33
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/10/21 15:32
Analyst: JG
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 02:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	37.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-03 Date Collected: 11/05/21 14:33

Client ID: EPSW08_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	290	83.	1
2,4-Dinitrophenol	ND		ug/kg	980	95.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	98.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-03 Date Collected: 11/05/21 14:33

Client ID: EPSW08_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	210	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	31	9.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		25-120
Phenol-d6	56		10-120
Nitrobenzene-d5	50		23-120
2-Fluorobiphenyl	52		30-120
2,4,6-Tribromophenol	51		10-136
4-Terphenyl-d14	45		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-04
Client ID: EP12_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:47
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/10/21 15:55
Analyst: JG
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 02:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	37.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-04 Date Collected: 11/05/21 14:47

Client ID: EP12_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	85.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	290	83.	1
2,4-Dinitrophenol	ND		ug/kg	980	95.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	98.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-04 Date Collected: 11/05/21 14:47

Client ID: EP12_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	210	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	31	9.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	66		10-136
4-Terphenyl-d14	56		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-05
Client ID: EP04_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:50
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/10/21 16:19
Analyst: JG
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 02:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	210	20.	1
1,2-Dichlorobenzene	ND		ug/kg	210	37.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	41.	1
2,6-Dinitrotoluene	ND		ug/kg	210	35.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	27.	1
Naphthalene	ND		ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	71.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1
Di-n-butylphthalate	ND		ug/kg	210	39.	1
Di-n-octylphthalate	ND		ug/kg	210	70.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-05 Date Collected: 11/05/21 14:50

Client ID: EP04_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	29.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	210	68.	1
2-Nitrophenol	ND		ug/kg	450	78.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	990	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	99.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-05 Date Collected: 11/05/21 14:50

Client ID: EP04_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	210	63.	1
Carbazole	ND		ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	31	9.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	56		10-136
4-Terphenyl-d14	52		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-06
Client ID: EPSW07_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:52
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/10/21 16:42
Analyst: JG
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 02:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	21	J	ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	37.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	55.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	59	J	ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	27.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	52.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	70.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-06 Date Collected: 11/05/21 14:52

Client ID: EPSW07_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	25	J	ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	27	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	53	J	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	29.	1
Pyrene	59	J	ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	40.	1
3-Nitroaniline	ND		ug/kg	200	39.	1
4-Nitroaniline	ND		ug/kg	200	85.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	22.	1
Acetophenone	ND		ug/kg	200	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	31.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	68.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	990	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	99.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-06 Date Collected: 11/05/21 14:52

Client ID: EPSW07_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	200	63.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	31	9.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	49		10-136
4-Terphenyl-d14	49		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-07
Client ID: EP20_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:59
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/10/21 17:06
Analyst: JG
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 02:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	37.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	72.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1
Di-n-butylphthalate	ND		ug/kg	210	39.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-07 Date Collected: 11/05/21 14:59

Client ID: EP20_ -3 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	170	51.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	170	24.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	ND		ug/kg	120	21.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	24.	1
2,4-Dichlorophenol	ND		ug/kg	190	33.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	78.	1
4-Nitrophenol	ND		ug/kg	290	85.	1
2,4-Dinitrophenol	ND		ug/kg	1000	97.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-07 Date Collected: 11/05/21 14:59

Client ID: EP20_ -3 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	ND		ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	31	9.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	59		30-120
2,4,6-Tribromophenol	51		10-136
4-Terphenyl-d14	50		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-08
Client ID: EP27_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 15:06
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/10/21 17:30
Analyst: JG
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 02:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	52.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	240		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	180	1
Hexachloroethane	ND		ug/kg	160	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	170	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-08 Date Collected: 11/05/21 15:06

Client ID: EP27_ -3 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	41.	1
Benzo(a)anthracene	110	J	ug/kg	120	22.	1
Benzo(a)pyrene	100	J	ug/kg	160	47.	1
Benzo(b)fluoranthene	160		ug/kg	120	33.	1
Benzo(k)fluoranthene	63	J	ug/kg	120	31.	1
Chrysene	140		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	76	J	ug/kg	160	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	100	J	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	79	J	ug/kg	160	27.	1
Pyrene	220		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	930	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	93.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 1607 SURF AVENUE
Lab Number: L2161168
Project Number: 170599501
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-08
Client ID: EP27_ -3
Sample Location: BROOKLYN, NY
Date Collected: 11/05/21 15:06
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	8.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	56		30-120
2,4,6-Tribromophenol	49		10-136
4-Terphenyl-d14	46		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-09
Client ID: EP26_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 15:15
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/10/21 17:53
Analyst: JG
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 02:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-09 Date Collected: 11/05/21 15:15

Client ID: EP26_ -3 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	910	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-09 Date Collected: 11/05/21 15:15

Client ID: EP26_ -3 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		25-120
Phenol-d6	52		10-120
Nitrobenzene-d5	47		23-120
2-Fluorobiphenyl	48		30-120
2,4,6-Tribromophenol	40		10-136
4-Terphenyl-d14	41		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-10
Client ID: EP25_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 15:25
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/10/21 18:17
Analyst: JG
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 02:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	79	J	ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	630		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	42	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-10 Date Collected: 11/05/21 15:25

Client ID: EP25_ -3 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	260		ug/kg	120	22.	1
Benzo(a)pyrene	220		ug/kg	160	48.	1
Benzo(b)fluoranthene	290		ug/kg	120	33.	1
Benzo(k)fluoranthene	160		ug/kg	120	32.	1
Chrysene	280		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	120		ug/kg	120	39.	1
Benzo(ghi)perylene	140	J	ug/kg	160	23.	1
Fluorene	59	J	ug/kg	200	19.	1
Phenanthrene	480		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	33	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	160		ug/kg	160	28.	1
Pyrene	510		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	30	J	ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	430	74.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	95.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-10 Date Collected: 11/05/21 15:25

Client ID: EP25_ -3 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	58	J	ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	53		30-120
2,4,6-Tribromophenol	44		10-136
4-Terphenyl-d14	46		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/10/21 08:28
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 11/08/21 02:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1568286-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/10/21 08:28
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 11/08/21 02:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1568286-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/10/21 08:28
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 11/08/21 02:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1568286-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	51		10-136
4-Terphenyl-d14	61		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2161168

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1568286-2 WG1568286-3								
Acenaphthene	72		54		31-137	29		50
1,2,4-Trichlorobenzene	76		58		38-107	27		50
Hexachlorobenzene	69		49		40-140	34		50
Bis(2-chloroethyl)ether	73		54		40-140	30		50
2-Chloronaphthalene	76		56		40-140	30		50
1,2-Dichlorobenzene	74		58		40-140	24		50
1,3-Dichlorobenzene	72		55		40-140	27		50
1,4-Dichlorobenzene	72		54		28-104	29		50
3,3'-Dichlorobenzidine	48		46		40-140	4		50
2,4-Dinitrotoluene	75		56		40-132	29		50
2,6-Dinitrotoluene	81		59		40-140	31		50
Fluoranthene	72		54		40-140	29		50
4-Chlorophenyl phenyl ether	69		52		40-140	28		50
4-Bromophenyl phenyl ether	66		49		40-140	30		50
Bis(2-chloroisopropyl)ether	92		70		40-140	27		50
Bis(2-chloroethoxy)methane	78		57		40-117	31		50
Hexachlorobutadiene	76		56		40-140	30		50
Hexachlorocyclopentadiene	68		49		40-140	32		50
Hexachloroethane	78		63		40-140	21		50
Isophorone	82		62		40-140	28		50
Naphthalene	72		55		40-140	27		50
Nitrobenzene	76		56		40-140	30		50
NDPA/DPA	71		54		36-157	27		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161168
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1568286-2 WG1568286-3								
n-Nitrosodi-n-propylamine	81		59		32-121	31		50
Bis(2-ethylhexyl)phthalate	83		62		40-140	29		50
Butyl benzyl phthalate	82		60		40-140	31		50
Di-n-butylphthalate	78		59		40-140	28		50
Di-n-octylphthalate	83		62		40-140	29		50
Diethyl phthalate	77		57		40-140	30		50
Dimethyl phthalate	80		58		40-140	32		50
Benzo(a)anthracene	64		48		40-140	29		50
Benzo(a)pyrene	70		56		40-140	22		50
Benzo(b)fluoranthene	58		45		40-140	25		50
Benzo(k)fluoranthene	77		61		40-140	23		50
Chrysene	78		60		40-140	26		50
Acenaphthylene	79		59		40-140	29		50
Anthracene	73		54		40-140	30		50
Benzo(ghi)perylene	71		50		40-140	35		50
Fluorene	72		54		40-140	29		50
Phenanthrene	70		52		40-140	30		50
Dibenzo(a,h)anthracene	71		52		40-140	31		50
Indeno(1,2,3-cd)pyrene	64		45		40-140	35		50
Pyrene	72		54		35-142	29		50
Biphenyl	79		58		37-127	31		50
4-Chloroaniline	73		56		40-140	26		50
2-Nitroaniline	76		59		47-134	25		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2161168

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1568286-2 WG1568286-3								
3-Nitroaniline	51		50		26-129	2		50
4-Nitroaniline	66		51		41-125	26		50
Dibenzofuran	71		53		40-140	29		50
2-Methylnaphthalene	76		55		40-140	32		50
1,2,4,5-Tetrachlorobenzene	76		55		40-117	32		50
Acetophenone	81		60		14-144	30		50
2,4,6-Trichlorophenol	73		53		30-130	32		50
p-Chloro-m-cresol	80		60		26-103	29		50
2-Chlorophenol	78		58		25-102	29		50
2,4-Dichlorophenol	80		59		30-130	30		50
2,4-Dimethylphenol	78		61		30-130	24		50
2-Nitrophenol	81		56		30-130	36		50
4-Nitrophenol	82		56		11-114	38		50
2,4-Dinitrophenol	50		30		4-130	50		50
4,6-Dinitro-o-cresol	66		47		10-130	34		50
Pentachlorophenol	63		44		17-109	36		50
Phenol	70		53		26-90	28		50
2-Methylphenol	78		59		30-130.	28		50
3-Methylphenol/4-Methylphenol	83		54		30-130	42		50
2,4,5-Trichlorophenol	77		52		30-130	39		50
Benzoic Acid	19		**5**	Q	10-110	**122**	Q	50
Benzyl Alcohol	78		59		40-140	28		50
Carbazole	72		54		54-128	29		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161168
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1568286-2 WG1568286-3								
1,4-Dioxane	55		44		40-140	22		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	77		57		25-120
Phenol-d6	80		60		10-120
Nitrobenzene-d5	77		57		23-120
2-Fluorobiphenyl	73		54		30-120
2,4,6-Tribromophenol	67		50		10-136
4-Terphenyl-d14	69		51		18-120

PCBS

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-01
Client ID: EP05_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:15
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/09/21 11:59
Analyst: AWS
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 03:50
Cleanup Method: EPA 3665A
Cleanup Date: 11/08/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.2	3.75	1	A
Aroclor 1221	ND		ug/kg	42.2	4.23	1	A
Aroclor 1232	ND		ug/kg	42.2	8.96	1	A
Aroclor 1242	ND		ug/kg	42.2	5.70	1	A
Aroclor 1248	ND		ug/kg	42.2	6.34	1	A
Aroclor 1254	ND		ug/kg	42.2	4.62	1	A
Aroclor 1260	ND		ug/kg	42.2	7.81	1	A
Aroclor 1262	ND		ug/kg	42.2	5.36	1	A
Aroclor 1268	ND		ug/kg	42.2	4.38	1	A
PCBs, Total	ND		ug/kg	42.2	3.75	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-02
Client ID: EP13_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:25
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/09/21 12:11
Analyst: AWS
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 03:50
Cleanup Method: EPA 3665A
Cleanup Date: 11/08/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.8	3.63	1	A
Aroclor 1221	ND		ug/kg	40.8	4.09	1	A
Aroclor 1232	ND		ug/kg	40.8	8.66	1	A
Aroclor 1242	ND		ug/kg	40.8	5.50	1	A
Aroclor 1248	ND		ug/kg	40.8	6.13	1	A
Aroclor 1254	16.5	J	ug/kg	40.8	4.47	1	B
Aroclor 1260	ND		ug/kg	40.8	7.55	1	A
Aroclor 1262	ND		ug/kg	40.8	5.19	1	A
Aroclor 1268	ND		ug/kg	40.8	4.23	1	A
PCBs, Total	16.5	J	ug/kg	40.8	3.63	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2161168
Project Number: 170599501
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-03
Client ID: EPSW08_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:33
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/09/21 12:24
Analyst: AWS
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 03:50
Cleanup Method: EPA 3665A
Cleanup Date: 11/08/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.1	3.56	1	A
Aroclor 1221	ND		ug/kg	40.1	4.02	1	A
Aroclor 1232	ND		ug/kg	40.1	8.50	1	A
Aroclor 1242	ND		ug/kg	40.1	5.41	1	A
Aroclor 1248	ND		ug/kg	40.1	6.02	1	A
Aroclor 1254	ND		ug/kg	40.1	4.39	1	A
Aroclor 1260	ND		ug/kg	40.1	7.41	1	A
Aroclor 1262	ND		ug/kg	40.1	5.09	1	A
Aroclor 1268	ND		ug/kg	40.1	4.16	1	A
PCBs, Total	ND		ug/kg	40.1	3.56	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-04
Client ID: EP12_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:47
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/09/21 12:37
Analyst: AWS
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 03:50
Cleanup Method: EPA 3665A
Cleanup Date: 11/08/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.8	3.44	1	A
Aroclor 1221	ND		ug/kg	38.8	3.89	1	A
Aroclor 1232	ND		ug/kg	38.8	8.22	1	A
Aroclor 1242	ND		ug/kg	38.8	5.23	1	A
Aroclor 1248	ND		ug/kg	38.8	5.82	1	A
Aroclor 1254	ND		ug/kg	38.8	4.24	1	A
Aroclor 1260	ND		ug/kg	38.8	7.17	1	A
Aroclor 1262	ND		ug/kg	38.8	4.93	1	A
Aroclor 1268	ND		ug/kg	38.8	4.02	1	A
PCBs, Total	ND		ug/kg	38.8	3.44	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-05
Client ID: EP04_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:50
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/09/21 12:50
Analyst: AWS
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 03:50
Cleanup Method: EPA 3665A
Cleanup Date: 11/08/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.9	3.54	1	A
Aroclor 1221	ND		ug/kg	39.9	4.00	1	A
Aroclor 1232	ND		ug/kg	39.9	8.46	1	A
Aroclor 1242	ND		ug/kg	39.9	5.38	1	A
Aroclor 1248	ND		ug/kg	39.9	5.99	1	A
Aroclor 1254	ND		ug/kg	39.9	4.36	1	A
Aroclor 1260	ND		ug/kg	39.9	7.37	1	A
Aroclor 1262	ND		ug/kg	39.9	5.07	1	A
Aroclor 1268	ND		ug/kg	39.9	4.13	1	A
PCBs, Total	ND		ug/kg	39.9	3.54	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-06
Client ID: EPSW07_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:52
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/09/21 13:03
Analyst: AWS
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 03:50
Cleanup Method: EPA 3665A
Cleanup Date: 11/08/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/09/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.4	3.49	1	A
Aroclor 1221	ND		ug/kg	39.4	3.94	1	A
Aroclor 1232	ND		ug/kg	39.4	8.34	1	A
Aroclor 1242	ND		ug/kg	39.4	5.30	1	A
Aroclor 1248	ND		ug/kg	39.4	5.90	1	A
Aroclor 1254	ND		ug/kg	39.4	4.30	1	A
Aroclor 1260	ND		ug/kg	39.4	7.27	1	A
Aroclor 1262	ND		ug/kg	39.4	5.00	1	A
Aroclor 1268	ND		ug/kg	39.4	4.08	1	A
PCBs, Total	ND		ug/kg	39.4	3.49	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-07
Client ID: EP20_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:59
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/09/21 13:16
Analyst: AWS
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 03:50
Cleanup Method: EPA 3665A
Cleanup Date: 11/08/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.7	3.70	1	A
Aroclor 1221	ND		ug/kg	41.7	4.18	1	A
Aroclor 1232	ND		ug/kg	41.7	8.84	1	A
Aroclor 1242	ND		ug/kg	41.7	5.62	1	A
Aroclor 1248	ND		ug/kg	41.7	6.25	1	A
Aroclor 1254	ND		ug/kg	41.7	4.56	1	A
Aroclor 1260	ND		ug/kg	41.7	7.70	1	A
Aroclor 1262	ND		ug/kg	41.7	5.29	1	A
Aroclor 1268	ND		ug/kg	41.7	4.32	1	A
PCBs, Total	ND		ug/kg	41.7	3.70	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2161168
Project Number: 170599501
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-08
Client ID: EP27_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 15:06
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/09/21 13:28
Analyst: AWS
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 03:50
Cleanup Method: EPA 3665A
Cleanup Date: 11/08/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.8	3.44	1	A
Aroclor 1221	ND		ug/kg	38.8	3.88	1	A
Aroclor 1232	ND		ug/kg	38.8	8.22	1	A
Aroclor 1242	ND		ug/kg	38.8	5.22	1	A
Aroclor 1248	ND		ug/kg	38.8	5.81	1	A
Aroclor 1254	ND		ug/kg	38.8	4.24	1	A
Aroclor 1260	ND		ug/kg	38.8	7.16	1	A
Aroclor 1262	ND		ug/kg	38.8	4.92	1	A
Aroclor 1268	ND		ug/kg	38.8	4.01	1	A
PCBs, Total	ND		ug/kg	38.8	3.44	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-09
Client ID: EP26_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 15:15
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/09/21 13:41
Analyst: AWS
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 03:50
Cleanup Method: EPA 3665A
Cleanup Date: 11/08/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.9	3.36	1	A
Aroclor 1221	ND		ug/kg	37.9	3.79	1	A
Aroclor 1232	ND		ug/kg	37.9	8.03	1	A
Aroclor 1242	ND		ug/kg	37.9	5.10	1	A
Aroclor 1248	ND		ug/kg	37.9	5.68	1	A
Aroclor 1254	ND		ug/kg	37.9	4.14	1	A
Aroclor 1260	ND		ug/kg	37.9	7.00	1	A
Aroclor 1262	ND		ug/kg	37.9	4.81	1	A
Aroclor 1268	ND		ug/kg	37.9	3.92	1	A
PCBs, Total	ND		ug/kg	37.9	3.36	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2161168
Project Number: 170599501
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-10
Client ID: EP25_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 15:25
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/09/21 13:54
Analyst: AWS
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 03:50
Cleanup Method: EPA 3665A
Cleanup Date: 11/08/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.5	3.42	1	A
Aroclor 1221	ND		ug/kg	38.5	3.86	1	A
Aroclor 1232	ND		ug/kg	38.5	8.16	1	A
Aroclor 1242	ND		ug/kg	38.5	5.19	1	A
Aroclor 1248	ND		ug/kg	38.5	5.78	1	B
Aroclor 1254	ND		ug/kg	38.5	4.21	1	A
Aroclor 1260	ND		ug/kg	38.5	7.12	1	A
Aroclor 1262	ND		ug/kg	38.5	4.89	1	A
Aroclor 1268	ND		ug/kg	38.5	3.99	1	A
PCBs, Total	ND		ug/kg	38.5	3.42	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		30-150	A
Decachlorobiphenyl	44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	45		30-150	B
Decachlorobiphenyl	48		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 11/09/21 11:20
Analyst: AWS

Extraction Method: EPA 3546
Extraction Date: 11/08/21 03:50
Cleanup Method: EPA 3665A
Cleanup Date: 11/08/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-10 Batch: WG1568299-1						
Aroclor 1016	ND		ug/kg	32.6	2.90	A
Aroclor 1221	ND		ug/kg	32.6	3.27	A
Aroclor 1232	ND		ug/kg	32.6	6.92	A
Aroclor 1242	ND		ug/kg	32.6	4.40	A
Aroclor 1248	ND		ug/kg	32.6	4.90	A
Aroclor 1254	ND		ug/kg	32.6	3.57	A
Aroclor 1260	ND		ug/kg	32.6	6.04	A
Aroclor 1262	ND		ug/kg	32.6	4.15	A
Aroclor 1268	ND		ug/kg	32.6	3.38	A
PCBs, Total	ND		ug/kg	32.6	2.90	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	79		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2161168

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-10 Batch: WG1568299-2 WG1568299-3									
Aroclor 1016	75		78		40-140	4		50	A
Aroclor 1260	76		74		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		73		30-150	A
Decachlorobiphenyl	78		75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		72		30-150	B
Decachlorobiphenyl	78		78		30-150	B

PESTICIDES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-01
Client ID: EP05_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:15
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/10/21 17:04
Analyst: SDC
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 05:51
Cleanup Method: EPA 3620B
Cleanup Date: 11/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.03	0.398	1	A
Lindane	ND		ug/kg	0.846	0.378	1	A
Alpha-BHC	ND		ug/kg	0.846	0.240	1	A
Beta-BHC	ND		ug/kg	2.03	0.770	1	A
Heptachlor	ND		ug/kg	1.02	0.455	1	A
Aldrin	ND		ug/kg	2.03	0.715	1	A
Heptachlor epoxide	ND		ug/kg	3.81	1.14	1	A
Endrin	ND		ug/kg	0.846	0.347	1	A
Endrin aldehyde	ND		ug/kg	2.54	0.888	1	A
Endrin ketone	ND		ug/kg	2.03	0.523	1	A
Dieldrin	ND		ug/kg	1.27	0.634	1	A
4,4'-DDE	ND		ug/kg	2.03	0.470	1	A
4,4'-DDD	ND		ug/kg	2.03	0.724	1	A
4,4'-DDT	ND		ug/kg	3.81	1.63	1	A
Endosulfan I	ND		ug/kg	2.03	0.480	1	A
Endosulfan II	ND		ug/kg	2.03	0.678	1	A
Endosulfan sulfate	ND		ug/kg	0.846	0.403	1	A
Methoxychlor	ND		ug/kg	3.81	1.18	1	A
Toxaphene	ND		ug/kg	38.1	10.7	1	A
cis-Chlordane	ND		ug/kg	2.54	0.707	1	A
trans-Chlordane	ND		ug/kg	2.54	0.670	1	A
Chlordane	ND		ug/kg	16.9	6.73	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-01 Date Collected: 11/05/21 14:15

Client ID: EP05_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2161168
Project Number: 170599501
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-01
Client ID: EP05_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:15
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/10/21 21:25
Analyst: AR
Percent Solids: 77%
Methylation Date: 11/10/21 14:10

Extraction Method: EPA 8151A
Extraction Date: 11/09/21 14:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	213	13.4	1	A
2,4,5-T	ND		ug/kg	213	6.61	1	A
2,4,5-TP (Silvex)	ND		ug/kg	213	5.67	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	82		30-150	A
DCAA	72		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-02
Client ID: EP13_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:25
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/10/21 16:51
Analyst: SDC
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 05:51
Cleanup Method: EPA 3620B
Cleanup Date: 11/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.93	0.377	1	A
Lindane	ND		ug/kg	0.803	0.359	1	A
Alpha-BHC	ND		ug/kg	0.803	0.228	1	A
Beta-BHC	ND		ug/kg	1.93	0.730	1	A
Heptachlor	ND		ug/kg	0.963	0.432	1	A
Aldrin	ND		ug/kg	1.93	0.678	1	A
Heptachlor epoxide	ND		ug/kg	3.61	1.08	1	A
Endrin	ND		ug/kg	0.803	0.329	1	A
Endrin aldehyde	ND		ug/kg	2.41	0.843	1	A
Endrin ketone	ND		ug/kg	1.93	0.496	1	A
Dieldrin	ND		ug/kg	1.20	0.602	1	A
4,4'-DDE	3.06		ug/kg	1.93	0.446	1	B
4,4'-DDD	3.72		ug/kg	1.93	0.687	1	B
4,4'-DDT	3.34	J	ug/kg	3.61	1.55	1	B
Endosulfan I	ND		ug/kg	1.93	0.455	1	A
Endosulfan II	ND		ug/kg	1.93	0.644	1	A
Endosulfan sulfate	ND		ug/kg	0.803	0.382	1	A
Methoxychlor	ND		ug/kg	3.61	1.12	1	A
Toxaphene	ND		ug/kg	36.1	10.1	1	A
cis-Chlordane	ND		ug/kg	2.41	0.671	1	A
trans-Chlordane	ND		ug/kg	2.41	0.636	1	A
Chlordane	ND		ug/kg	16.0	6.38	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-02 Date Collected: 11/05/21 14:25

Client ID: EP13_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2161168
Project Number: 170599501
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-02
Client ID: EP13_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:25
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/10/21 21:43
Analyst: AR
Percent Solids: 80%
Methylation Date: 11/10/21 14:10

Extraction Method: EPA 8151A
Extraction Date: 11/09/21 14:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	205	12.9	1	A
2,4,5-T	ND		ug/kg	205	6.34	1	A
2,4,5-TP (Silvex)	ND		ug/kg	205	5.44	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	80		30-150	A
DCAA	68		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-03
Client ID: EPSW08_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:33
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/10/21 16:39
Analyst: SDC
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 05:51
Cleanup Method: EPA 3620B
Cleanup Date: 11/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.92	0.376	1	A
Lindane	ND		ug/kg	0.799	0.357	1	A
Alpha-BHC	ND		ug/kg	0.799	0.227	1	A
Beta-BHC	ND		ug/kg	1.92	0.727	1	A
Heptachlor	ND		ug/kg	0.959	0.430	1	A
Aldrin	ND		ug/kg	1.92	0.675	1	A
Heptachlor epoxide	ND		ug/kg	3.60	1.08	1	A
Endrin	ND		ug/kg	0.799	0.328	1	A
Endrin aldehyde	ND		ug/kg	2.40	0.839	1	A
Endrin ketone	ND		ug/kg	1.92	0.494	1	A
Dieldrin	ND		ug/kg	1.20	0.599	1	A
4,4'-DDE	1.27	J	ug/kg	1.92	0.444	1	B
4,4'-DDD	3.44		ug/kg	1.92	0.684	1	A
4,4'-DDT	2.31	J	ug/kg	3.60	1.54	1	B
Endosulfan I	ND		ug/kg	1.92	0.453	1	A
Endosulfan II	ND		ug/kg	1.92	0.641	1	A
Endosulfan sulfate	ND		ug/kg	0.799	0.380	1	A
Methoxychlor	ND		ug/kg	3.60	1.12	1	A
Toxaphene	ND		ug/kg	36.0	10.1	1	A
cis-Chlordane	ND		ug/kg	2.40	0.668	1	A
trans-Chlordane	ND		ug/kg	2.40	0.633	1	A
Chlordane	ND		ug/kg	16.0	6.35	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-03 Date Collected: 11/05/21 14:33

Client ID: EPSW08_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	101		30-150	A
Decachlorobiphenyl	99		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	99		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2161168
Project Number: 170599501
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-03
Client ID: EPSW08_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:33
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/10/21 22:01
Analyst: AR
Percent Solids: 79%
Methylation Date: 11/10/21 14:10

Extraction Method: EPA 8151A
Extraction Date: 11/09/21 14:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	210	13.2	1	A
2,4,5-T	ND		ug/kg	210	6.50	1	A
2,4,5-TP (Silvex)	ND		ug/kg	210	5.58	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	82		30-150	A
DCAA	70		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-04
Client ID: EP12_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:47
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/10/21 16:26
Analyst: SDC
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 05:51
Cleanup Method: EPA 3620B
Cleanup Date: 11/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.90	0.373	1	A
Lindane	ND		ug/kg	0.793	0.354	1	A
Alpha-BHC	ND		ug/kg	0.793	0.225	1	A
Beta-BHC	ND		ug/kg	1.90	0.721	1	A
Heptachlor	ND		ug/kg	0.951	0.426	1	A
Aldrin	ND		ug/kg	1.90	0.670	1	A
Heptachlor epoxide	ND		ug/kg	3.57	1.07	1	A
Endrin	ND		ug/kg	0.793	0.325	1	A
Endrin aldehyde	ND		ug/kg	2.38	0.832	1	A
Endrin ketone	ND		ug/kg	1.90	0.490	1	A
Dieldrin	ND		ug/kg	1.19	0.595	1	A
4,4'-DDE	ND		ug/kg	1.90	0.440	1	B
4,4'-DDD	ND		ug/kg	1.90	0.679	1	B
4,4'-DDT	ND		ug/kg	3.57	1.53	1	A
Endosulfan I	ND		ug/kg	1.90	0.450	1	A
Endosulfan II	ND		ug/kg	1.90	0.636	1	A
Endosulfan sulfate	ND		ug/kg	0.793	0.377	1	A
Methoxychlor	ND		ug/kg	3.57	1.11	1	A
Toxaphene	ND		ug/kg	35.7	9.99	1	A
cis-Chlordane	ND		ug/kg	2.38	0.663	1	A
trans-Chlordane	ND		ug/kg	2.38	0.628	1	A
Chlordane	ND		ug/kg	15.8	6.30	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-04 Date Collected: 11/05/21 14:47

Client ID: EP12_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	44		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2161168
Project Number: 170599501
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-04
Client ID: EP12_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:47
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/10/21 22:19
Analyst: AR
Percent Solids: 81%
Methylation Date: 11/10/21 14:10

Extraction Method: EPA 8151A
Extraction Date: 11/09/21 14:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	201	12.6	1	A
2,4,5-T	ND		ug/kg	201	6.22	1	A
2,4,5-TP (Silvex)	ND		ug/kg	201	5.34	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	84		30-150	A
DCAA	71		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-05
Client ID: EP04_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:50
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/10/21 16:14
Analyst: SDC
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 05:51
Cleanup Method: EPA 3620B
Cleanup Date: 11/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.92	0.376	1	A
Lindane	ND		ug/kg	0.801	0.358	1	A
Alpha-BHC	ND		ug/kg	0.801	0.228	1	A
Beta-BHC	ND		ug/kg	1.92	0.729	1	A
Heptachlor	ND		ug/kg	0.961	0.431	1	A
Aldrin	ND		ug/kg	1.92	0.677	1	A
Heptachlor epoxide	ND		ug/kg	3.60	1.08	1	A
Endrin	ND		ug/kg	0.801	0.328	1	A
Endrin aldehyde	ND		ug/kg	2.40	0.841	1	A
Endrin ketone	ND		ug/kg	1.92	0.495	1	A
Dieldrin	ND		ug/kg	1.20	0.601	1	A
4,4'-DDE	ND		ug/kg	1.92	0.445	1	A
4,4'-DDD	ND		ug/kg	1.92	0.686	1	A
4,4'-DDT	ND		ug/kg	3.60	1.55	1	A
Endosulfan I	ND		ug/kg	1.92	0.454	1	A
Endosulfan II	ND		ug/kg	1.92	0.642	1	A
Endosulfan sulfate	ND		ug/kg	0.801	0.381	1	A
Methoxychlor	ND		ug/kg	3.60	1.12	1	A
Toxaphene	ND		ug/kg	36.0	10.1	1	A
cis-Chlordane	ND		ug/kg	2.40	0.670	1	A
trans-Chlordane	ND		ug/kg	2.40	0.634	1	A
Chlordane	ND		ug/kg	16.0	6.37	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-05 Date Collected: 11/05/21 14:50

Client ID: EP04_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	35		30-150	A
Decachlorobiphenyl	34		30-150	A
2,4,5,6-Tetrachloro-m-xylene	30		30-150	B
Decachlorobiphenyl	30		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2161168
Project Number: 170599501
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-05
Client ID: EP04_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:50
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/10/21 22:38
Analyst: AR
Percent Solids: 80%
Methylation Date: 11/10/21 14:10

Extraction Method: EPA 8151A
Extraction Date: 11/09/21 14:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	209	13.1	1	A
2,4,5-T	ND		ug/kg	209	6.47	1	A
2,4,5-TP (Silvex)	ND		ug/kg	209	5.55	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	85		30-150	A
DCAA	73		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-06
Client ID: EPSW07_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:52
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/10/21 16:01
Analyst: SDC
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 05:51
Cleanup Method: EPA 3620B
Cleanup Date: 11/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.98	0.388	1	A
Lindane	ND		ug/kg	0.826	0.369	1	A
Alpha-BHC	ND		ug/kg	0.826	0.234	1	A
Beta-BHC	ND		ug/kg	1.98	0.751	1	A
Heptachlor	ND		ug/kg	0.991	0.444	1	A
Aldrin	ND		ug/kg	1.98	0.698	1	A
Heptachlor epoxide	ND		ug/kg	3.72	1.11	1	A
Endrin	ND		ug/kg	0.826	0.338	1	A
Endrin aldehyde	ND		ug/kg	2.48	0.867	1	A
Endrin ketone	ND		ug/kg	1.98	0.510	1	A
Dieldrin	ND		ug/kg	1.24	0.619	1	A
4,4'-DDE	1.21	JP	ug/kg	1.98	0.458	1	B
4,4'-DDD	1.71	J	ug/kg	1.98	0.707	1	A
4,4'-DDT	ND		ug/kg	3.72	1.59	1	B
Endosulfan I	ND		ug/kg	1.98	0.468	1	A
Endosulfan II	ND		ug/kg	1.98	0.662	1	A
Endosulfan sulfate	ND		ug/kg	0.826	0.393	1	A
Methoxychlor	ND		ug/kg	3.72	1.16	1	A
Toxaphene	ND		ug/kg	37.2	10.4	1	A
cis-Chlordane	ND		ug/kg	2.48	0.690	1	A
trans-Chlordane	ND		ug/kg	2.48	0.654	1	A
Chlordane	ND		ug/kg	16.5	6.56	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-06 Date Collected: 11/05/21 14:52

Client ID: EPSW07_ -6.5 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2161168
Project Number: 170599501
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-06
Client ID: EPSW07_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:52
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/10/21 22:56
Analyst: AR
Percent Solids: 80%
Methylation Date: 11/10/21 14:10

Extraction Method: EPA 8151A
Extraction Date: 11/09/21 14:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	205	12.9	1	A
2,4,5-T	ND		ug/kg	205	6.35	1	A
2,4,5-TP (Silvex)	ND		ug/kg	205	5.45	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	91		30-150	A
DCAA	78		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-07
Client ID: EP20_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:59
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/10/21 15:48
Analyst: SDC
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 05:51
Cleanup Method: EPA 3620B
Cleanup Date: 11/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.97	0.386	1	A
Lindane	ND		ug/kg	0.822	0.367	1	A
Alpha-BHC	ND		ug/kg	0.822	0.233	1	A
Beta-BHC	ND		ug/kg	1.97	0.748	1	A
Heptachlor	ND		ug/kg	0.986	0.442	1	A
Aldrin	ND		ug/kg	1.97	0.694	1	A
Heptachlor epoxide	ND		ug/kg	3.70	1.11	1	A
Endrin	ND		ug/kg	0.822	0.337	1	A
Endrin aldehyde	ND		ug/kg	2.46	0.863	1	A
Endrin ketone	ND		ug/kg	1.97	0.508	1	A
Dieldrin	ND		ug/kg	1.23	0.616	1	A
4,4'-DDE	ND		ug/kg	1.97	0.456	1	B
4,4'-DDD	ND		ug/kg	1.97	0.704	1	A
4,4'-DDT	ND		ug/kg	3.70	1.59	1	A
Endosulfan I	ND		ug/kg	1.97	0.466	1	A
Endosulfan II	ND		ug/kg	1.97	0.659	1	A
Endosulfan sulfate	ND		ug/kg	0.822	0.391	1	A
Methoxychlor	ND		ug/kg	3.70	1.15	1	A
Toxaphene	ND		ug/kg	37.0	10.4	1	A
cis-Chlordane	ND		ug/kg	2.46	0.687	1	A
trans-Chlordane	ND		ug/kg	2.46	0.651	1	A
Chlordane	ND		ug/kg	16.4	6.53	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-07 Date Collected: 11/05/21 14:59

Client ID: EP20_ -3 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-07
Client ID: EP20_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:59
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/10/21 23:14
Analyst: AR
Percent Solids: 79%
Methylation Date: 11/10/21 14:10

Extraction Method: EPA 8151A
Extraction Date: 11/09/21 14:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	208	13.1	1	A
2,4,5-T	ND		ug/kg	208	6.44	1	A
2,4,5-TP (Silvex)	ND		ug/kg	208	5.53	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	87		30-150	A
DCAA	74		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-08
Client ID: EP27_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 15:06
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/10/21 15:11
Analyst: SDC
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 05:51
Cleanup Method: EPA 3620B
Cleanup Date: 11/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.88	0.368	1	A
Lindane	ND		ug/kg	0.783	0.350	1	A
Alpha-BHC	ND		ug/kg	0.783	0.222	1	A
Beta-BHC	ND		ug/kg	1.88	0.713	1	A
Heptachlor	ND		ug/kg	0.940	0.421	1	A
Aldrin	ND		ug/kg	1.88	0.662	1	A
Heptachlor epoxide	ND		ug/kg	3.52	1.06	1	A
Endrin	ND		ug/kg	0.783	0.321	1	A
Endrin aldehyde	ND		ug/kg	2.35	0.822	1	A
Endrin ketone	ND		ug/kg	1.88	0.484	1	A
Dieldrin	ND		ug/kg	1.17	0.587	1	A
4,4'-DDE	5.48		ug/kg	1.88	0.435	1	B
4,4'-DDD	2.73		ug/kg	1.88	0.670	1	B
4,4'-DDT	3.16	J	ug/kg	3.52	1.51	1	B
Endosulfan I	ND		ug/kg	1.88	0.444	1	A
Endosulfan II	ND		ug/kg	1.88	0.628	1	A
Endosulfan sulfate	ND		ug/kg	0.783	0.373	1	A
Methoxychlor	ND		ug/kg	3.52	1.10	1	A
Toxaphene	ND		ug/kg	35.2	9.87	1	A
cis-Chlordane	ND		ug/kg	2.35	0.655	1	A
trans-Chlordane	ND		ug/kg	2.35	0.620	1	A
Chlordane	ND		ug/kg	15.7	6.22	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-08 Date Collected: 11/05/21 15:06

Client ID: EP27_ -3 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	94		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2161168
Project Number: 170599501
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-08
Client ID: EP27_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 15:06
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/10/21 23:32
Analyst: AR
Percent Solids: 83%
Methylation Date: 11/10/21 14:10

Extraction Method: EPA 8151A
Extraction Date: 11/09/21 14:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	197	12.4	1	A
2,4,5-T	ND		ug/kg	197	6.10	1	A
2,4,5-TP (Silvex)	ND		ug/kg	197	5.24	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	84		30-150	A
DCAA	74		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-09
Client ID: EP26_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 15:15
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/10/21 15:36
Analyst: SDC
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 05:51
Cleanup Method: EPA 3620B
Cleanup Date: 11/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.81	0.354	1	A
Lindane	ND		ug/kg	0.754	0.337	1	A
Alpha-BHC	ND		ug/kg	0.754	0.214	1	A
Beta-BHC	ND		ug/kg	1.81	0.686	1	A
Heptachlor	ND		ug/kg	0.905	0.406	1	A
Aldrin	ND		ug/kg	1.81	0.637	1	A
Heptachlor epoxide	ND		ug/kg	3.39	1.02	1	A
Endrin	ND		ug/kg	0.754	0.309	1	A
Endrin aldehyde	ND		ug/kg	2.26	0.792	1	A
Endrin ketone	ND		ug/kg	1.81	0.466	1	A
Dieldrin	ND		ug/kg	1.13	0.566	1	A
4,4'-DDE	ND		ug/kg	1.81	0.419	1	A
4,4'-DDD	ND		ug/kg	1.81	0.646	1	A
4,4'-DDT	ND		ug/kg	3.39	1.46	1	A
Endosulfan I	ND		ug/kg	1.81	0.428	1	A
Endosulfan II	ND		ug/kg	1.81	0.605	1	A
Endosulfan sulfate	ND		ug/kg	0.754	0.359	1	A
Methoxychlor	ND		ug/kg	3.39	1.06	1	A
Toxaphene	ND		ug/kg	33.9	9.50	1	A
cis-Chlordane	ND		ug/kg	2.26	0.630	1	A
trans-Chlordane	ND		ug/kg	2.26	0.597	1	A
Chlordane	ND		ug/kg	15.1	6.00	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-09 Date Collected: 11/05/21 15:15

Client ID: EP26_ -3 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2161168
Project Number: 170599501
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-09
Client ID: EP26_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 15:15
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/10/21 23:51
Analyst: AR
Percent Solids: 87%
Methylation Date: 11/10/21 14:10

Extraction Method: EPA 8151A
Extraction Date: 11/09/21 14:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	186	11.7	1	A
2,4,5-T	ND		ug/kg	186	5.78	1	A
2,4,5-TP (Silvex)	ND		ug/kg	186	4.96	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	86		30-150	A
DCAA	75		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-10
Client ID: EP25_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 15:25
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/10/21 15:23
Analyst: SDC
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 11/08/21 05:51
Cleanup Method: EPA 3620B
Cleanup Date: 11/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.84	0.360	1	A
Lindane	ND		ug/kg	0.766	0.342	1	A
Alpha-BHC	ND		ug/kg	0.766	0.218	1	A
Beta-BHC	ND		ug/kg	1.84	0.697	1	A
Heptachlor	ND		ug/kg	0.919	0.412	1	A
Aldrin	ND		ug/kg	1.84	0.647	1	A
Heptachlor epoxide	ND		ug/kg	3.45	1.03	1	A
Endrin	ND		ug/kg	0.766	0.314	1	A
Endrin aldehyde	ND		ug/kg	2.30	0.804	1	A
Endrin ketone	ND		ug/kg	1.84	0.474	1	A
Dieldrin	ND		ug/kg	1.15	0.575	1	A
4,4'-DDE	ND		ug/kg	1.84	0.425	1	A
4,4'-DDD	ND		ug/kg	1.84	0.656	1	A
4,4'-DDT	ND		ug/kg	3.45	1.48	1	B
Endosulfan I	ND		ug/kg	1.84	0.434	1	A
Endosulfan II	ND		ug/kg	1.84	0.614	1	A
Endosulfan sulfate	ND		ug/kg	0.766	0.365	1	A
Methoxychlor	ND		ug/kg	3.45	1.07	1	A
Toxaphene	ND		ug/kg	34.5	9.65	1	A
cis-Chlordane	ND		ug/kg	2.30	0.640	1	A
trans-Chlordane	ND		ug/kg	2.30	0.607	1	A
Chlordane	ND		ug/kg	15.3	6.09	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-10 Date Collected: 11/05/21 15:25

Client ID: EP25_ -3 Date Received: 11/05/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-10
Client ID: EP25_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 15:25
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/11/21 00:09
Analyst: AR
Percent Solids: 84%
Methylation Date: 11/10/21 14:10

Extraction Method: EPA 8151A
Extraction Date: 11/09/21 14:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	194	12.2	1	A
2,4,5-T	ND		ug/kg	194	6.02	1	A
2,4,5-TP (Silvex)	ND		ug/kg	194	5.16	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	85		30-150	A
DCAA	74		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/10/21 17:17
Analyst: SDC

Extraction Method: EPA 3546
Extraction Date: 11/08/21 05:51
Cleanup Method: EPA 3620B
Cleanup Date: 11/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-10 Batch: WG1568316-1						
Delta-BHC	ND		ug/kg	1.57	0.308	A
Lindane	ND		ug/kg	0.655	0.293	A
Alpha-BHC	ND		ug/kg	0.655	0.186	A
Beta-BHC	ND		ug/kg	1.57	0.596	A
Heptachlor	ND		ug/kg	0.786	0.352	A
Aldrin	ND		ug/kg	1.57	0.554	A
Heptachlor epoxide	ND		ug/kg	2.95	0.885	A
Endrin	ND		ug/kg	0.655	0.269	A
Endrin aldehyde	ND		ug/kg	1.96	0.688	A
Endrin ketone	ND		ug/kg	1.57	0.405	A
Dieldrin	ND		ug/kg	0.983	0.491	A
4,4'-DDE	ND		ug/kg	1.57	0.364	A
4,4'-DDD	ND		ug/kg	1.57	0.561	A
4,4'-DDT	ND		ug/kg	2.95	1.26	A
Endosulfan I	ND		ug/kg	1.57	0.372	A
Endosulfan II	ND		ug/kg	1.57	0.526	A
Endosulfan sulfate	ND		ug/kg	0.655	0.312	A
Methoxychlor	ND		ug/kg	2.95	0.917	A
Toxaphene	ND		ug/kg	29.5	8.26	A
cis-Chlordane	ND		ug/kg	1.96	0.548	A
trans-Chlordane	ND		ug/kg	1.96	0.519	A
Chlordane	ND		ug/kg	13.1	5.21	A

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/10/21 17:17
Analyst: SDC

Extraction Method: EPA 3546
Extraction Date: 11/08/21 05:51
Cleanup Method: EPA 3620B
Cleanup Date: 11/08/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-10 Batch: WG1568316-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	89		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 11/10/21 20:12
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 11/09/21 14:54

Methylation Date: 11/10/21 14:10

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-10 Batch: WG1569129-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.02	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.31	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	82		30-150	A
DCAA	70		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2161168

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-10 Batch: WG1568316-2 WG1568316-3									
Delta-BHC	57		70		30-150	20		30	A
Lindane	72		86		30-150	18		30	A
Alpha-BHC	76		92		30-150	19		30	A
Beta-BHC	84		103		30-150	20		30	A
Heptachlor	76		91		30-150	18		30	A
Aldrin	80		96		30-150	18		30	A
Heptachlor epoxide	72		86		30-150	18		30	A
Endrin	90		106		30-150	16		30	A
Endrin aldehyde	49		62		30-150	23		30	A
Endrin ketone	89		112		30-150	23		30	A
Dieldrin	76		90		30-150	17		30	A
4,4'-DDE	71		83		30-150	16		30	A
4,4'-DDD	78		92		30-150	16		30	A
4,4'-DDT	81		94		30-150	15		30	A
Endosulfan I	69		81		30-150	16		30	A
Endosulfan II	74		88		30-150	17		30	A
Endosulfan sulfate	68		87		30-150	25		30	A
Methoxychlor	100		120		30-150	18		30	A
cis-Chlordane	74		89		30-150	18		30	A
trans-Chlordane	95		113		30-150	17		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161168
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-10 Batch: WG1568316-2 WG1568316-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		99		30-150	A
Decachlorobiphenyl	85		101		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		81		30-150	B
Decachlorobiphenyl	77		94		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161168
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-10 Batch: WG1569129-2 WG1569129-3									
2,4-D	82		83		30-150	1		30	A
2,4,5-T	80		81		30-150	1		30	A
2,4,5-TP (Silvex)	77		78		30-150	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	86		86		30-150	A
DCAA	76		78		30-150	B

METALS

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-01
Client ID: EP05_ -6.5
Sample Location: BROOKLYN, NY
Date Collected: 11/05/21 14:15
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1660		mg/kg	10.2	2.75	2	11/08/21 20:03	11/10/21 12:20	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	5.10	0.388	2	11/08/21 20:03	11/10/21 12:20	EPA 3050B	1,6010D	GD
Arsenic, Total	1.23		mg/kg	1.02	0.212	2	11/08/21 20:03	11/10/21 12:20	EPA 3050B	1,6010D	GD
Barium, Total	8.75		mg/kg	1.02	0.178	2	11/08/21 20:03	11/10/21 12:20	EPA 3050B	1,6010D	GD
Beryllium, Total	0.102	J	mg/kg	0.510	0.034	2	11/08/21 20:03	11/10/21 12:20	EPA 3050B	1,6010D	GD
Cadmium, Total	0.112	J	mg/kg	1.02	0.100	2	11/08/21 20:03	11/10/21 12:20	EPA 3050B	1,6010D	GD
Calcium, Total	516		mg/kg	10.2	3.57	2	11/08/21 20:03	11/10/21 12:20	EPA 3050B	1,6010D	GD
Chromium, Total	4.93		mg/kg	1.02	0.098	2	11/08/21 20:03	11/10/21 12:20	EPA 3050B	1,6010D	GD
Cobalt, Total	1.76	J	mg/kg	2.04	0.169	2	11/08/21 20:03	11/10/21 12:20	EPA 3050B	1,6010D	GD
Copper, Total	2.51		mg/kg	1.02	0.263	2	11/08/21 20:03	11/10/21 12:20	EPA 3050B	1,6010D	GD
Iron, Total	4100		mg/kg	5.10	0.921	2	11/08/21 20:03	11/10/21 12:20	EPA 3050B	1,6010D	GD
Lead, Total	2.03	J	mg/kg	5.10	0.273	2	11/08/21 20:03	11/10/21 12:20	EPA 3050B	1,6010D	GD
Magnesium, Total	929		mg/kg	10.2	1.57	2	11/08/21 20:03	11/10/21 12:20	EPA 3050B	1,6010D	GD
Manganese, Total	46.8		mg/kg	1.02	0.162	2	11/08/21 20:03	11/10/21 12:20	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.107	0.070	1	11/08/21 20:45	11/09/21 11:22	EPA 7471B	1,7471B	AC
Nickel, Total	5.72		mg/kg	2.55	0.247	2	11/08/21 20:03	11/10/21 12:20	EPA 3050B	1,6010D	GD
Potassium, Total	400		mg/kg	255	14.7	2	11/08/21 20:03	11/10/21 12:20	EPA 3050B	1,6010D	GD
Selenium, Total	ND		mg/kg	2.04	0.263	2	11/08/21 20:03	11/10/21 12:20	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	1.02	0.289	2	11/08/21 20:03	11/10/21 12:20	EPA 3050B	1,6010D	GD
Sodium, Total	563		mg/kg	204	3.21	2	11/08/21 20:03	11/10/21 12:20	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	2.04	0.321	2	11/08/21 20:03	11/10/21 12:20	EPA 3050B	1,6010D	GD
Vanadium, Total	5.91		mg/kg	1.02	0.207	2	11/08/21 20:03	11/10/21 12:20	EPA 3050B	1,6010D	GD
Zinc, Total	15.5		mg/kg	5.10	0.299	2	11/08/21 20:03	11/10/21 12:20	EPA 3050B	1,6010D	GD
General Chemistry - Mansfield Lab											
Chromium, Trivalent	4.9		mg/kg	1.0	1.0	1		11/10/21 12:20	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-02
Client ID: EP13_ -6.5
Sample Location: BROOKLYN, NY
Date Collected: 11/05/21 14:25
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1890		mg/kg	9.81	2.65	2	11/08/21 20:03	11/10/21 12:25	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.91	0.373	2	11/08/21 20:03	11/10/21 12:25	EPA 3050B	1,6010D	GD
Arsenic, Total	1.93		mg/kg	0.981	0.204	2	11/08/21 20:03	11/10/21 12:25	EPA 3050B	1,6010D	GD
Barium, Total	6.17		mg/kg	0.981	0.171	2	11/08/21 20:03	11/10/21 12:25	EPA 3050B	1,6010D	GD
Beryllium, Total	0.108	J	mg/kg	0.491	0.032	2	11/08/21 20:03	11/10/21 12:25	EPA 3050B	1,6010D	GD
Cadmium, Total	0.098	J	mg/kg	0.981	0.096	2	11/08/21 20:03	11/10/21 12:25	EPA 3050B	1,6010D	GD
Calcium, Total	625		mg/kg	9.81	3.44	2	11/08/21 20:03	11/10/21 12:25	EPA 3050B	1,6010D	GD
Chromium, Total	5.73		mg/kg	0.981	0.094	2	11/08/21 20:03	11/10/21 12:25	EPA 3050B	1,6010D	GD
Cobalt, Total	1.87	J	mg/kg	1.96	0.163	2	11/08/21 20:03	11/10/21 12:25	EPA 3050B	1,6010D	GD
Copper, Total	1.88		mg/kg	0.981	0.253	2	11/08/21 20:03	11/10/21 12:25	EPA 3050B	1,6010D	GD
Iron, Total	4560		mg/kg	4.91	0.886	2	11/08/21 20:03	11/10/21 12:25	EPA 3050B	1,6010D	GD
Lead, Total	2.88	J	mg/kg	4.91	0.263	2	11/08/21 20:03	11/10/21 12:25	EPA 3050B	1,6010D	GD
Magnesium, Total	989		mg/kg	9.81	1.51	2	11/08/21 20:03	11/10/21 12:25	EPA 3050B	1,6010D	GD
Manganese, Total	54.1		mg/kg	0.981	0.156	2	11/08/21 20:03	11/10/21 12:25	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.103	0.067	1	11/08/21 20:45	11/09/21 11:32	EPA 7471B	1,7471B	AC
Nickel, Total	5.93		mg/kg	2.45	0.238	2	11/08/21 20:03	11/10/21 12:25	EPA 3050B	1,6010D	GD
Potassium, Total	407		mg/kg	245	14.1	2	11/08/21 20:03	11/10/21 12:25	EPA 3050B	1,6010D	GD
Selenium, Total	ND		mg/kg	1.96	0.253	2	11/08/21 20:03	11/10/21 12:25	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.981	0.278	2	11/08/21 20:03	11/10/21 12:25	EPA 3050B	1,6010D	GD
Sodium, Total	404		mg/kg	196	3.09	2	11/08/21 20:03	11/10/21 12:25	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.96	0.309	2	11/08/21 20:03	11/10/21 12:25	EPA 3050B	1,6010D	GD
Vanadium, Total	7.03		mg/kg	0.981	0.199	2	11/08/21 20:03	11/10/21 12:25	EPA 3050B	1,6010D	GD
Zinc, Total	12.3		mg/kg	4.91	0.288	2	11/08/21 20:03	11/10/21 12:25	EPA 3050B	1,6010D	GD
General Chemistry - Mansfield Lab											
Chromium, Trivalent	5.7		mg/kg	1.0	1.0	1		11/10/21 12:25	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2161168
Project Number: 170599501
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-03
Client ID: EPSW08_ -6.5
Sample Location: BROOKLYN, NY
Date Collected: 11/05/21 14:33
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1560		mg/kg	9.95	2.68	2	11/08/21 20:03	11/10/21 12:29	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.97	0.378	2	11/08/21 20:03	11/10/21 12:29	EPA 3050B	1,6010D	GD
Arsenic, Total	1.29		mg/kg	0.995	0.207	2	11/08/21 20:03	11/10/21 12:29	EPA 3050B	1,6010D	GD
Barium, Total	3.28		mg/kg	0.995	0.173	2	11/08/21 20:03	11/10/21 12:29	EPA 3050B	1,6010D	GD
Beryllium, Total	0.10	J	mg/kg	0.497	0.033	2	11/08/21 20:03	11/10/21 12:29	EPA 3050B	1,6010D	GD
Cadmium, Total	ND		mg/kg	0.995	0.098	2	11/08/21 20:03	11/10/21 12:29	EPA 3050B	1,6010D	GD
Calcium, Total	453		mg/kg	9.95	3.48	2	11/08/21 20:03	11/10/21 12:29	EPA 3050B	1,6010D	GD
Chromium, Total	5.10		mg/kg	0.995	0.096	2	11/08/21 20:03	11/10/21 12:29	EPA 3050B	1,6010D	GD
Cobalt, Total	1.51	J	mg/kg	1.99	0.165	2	11/08/21 20:03	11/10/21 12:29	EPA 3050B	1,6010D	GD
Copper, Total	1.46		mg/kg	0.995	0.257	2	11/08/21 20:03	11/10/21 12:29	EPA 3050B	1,6010D	GD
Iron, Total	3570		mg/kg	4.97	0.898	2	11/08/21 20:03	11/10/21 12:29	EPA 3050B	1,6010D	GD
Lead, Total	1.81	J	mg/kg	4.97	0.266	2	11/08/21 20:03	11/10/21 12:29	EPA 3050B	1,6010D	GD
Magnesium, Total	798		mg/kg	9.95	1.53	2	11/08/21 20:03	11/10/21 12:29	EPA 3050B	1,6010D	GD
Manganese, Total	40.9		mg/kg	0.995	0.158	2	11/08/21 20:03	11/10/21 12:29	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.101	0.066	1	11/08/21 20:45	11/09/21 11:35	EPA 7471B	1,7471B	AC
Nickel, Total	4.92		mg/kg	2.49	0.241	2	11/08/21 20:03	11/10/21 12:29	EPA 3050B	1,6010D	GD
Potassium, Total	346		mg/kg	249	14.3	2	11/08/21 20:03	11/10/21 12:29	EPA 3050B	1,6010D	GD
Selenium, Total	ND		mg/kg	1.99	0.257	2	11/08/21 20:03	11/10/21 12:29	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.995	0.281	2	11/08/21 20:03	11/10/21 12:29	EPA 3050B	1,6010D	GD
Sodium, Total	284		mg/kg	199	3.13	2	11/08/21 20:03	11/10/21 12:29	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.99	0.313	2	11/08/21 20:03	11/10/21 12:29	EPA 3050B	1,6010D	GD
Vanadium, Total	5.42		mg/kg	0.995	0.202	2	11/08/21 20:03	11/10/21 12:29	EPA 3050B	1,6010D	GD
Zinc, Total	8.40		mg/kg	4.97	0.291	2	11/08/21 20:03	11/10/21 12:29	EPA 3050B	1,6010D	GD
General Chemistry - Mansfield Lab											
Chromium, Trivalent	5.1		mg/kg	1.0	1.0	1		11/10/21 12:29	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-04
Client ID: EP12_ -6.5
Sample Location: BROOKLYN, NY
Date Collected: 11/05/21 14:47
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	773		mg/kg	9.74	2.63	2	11/08/21 20:03	11/10/21 12:34	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.87	0.370	2	11/08/21 20:03	11/10/21 12:34	EPA 3050B	1,6010D	GD
Arsenic, Total	0.896	J	mg/kg	0.974	0.203	2	11/08/21 20:03	11/10/21 12:34	EPA 3050B	1,6010D	GD
Barium, Total	3.21		mg/kg	0.974	0.170	2	11/08/21 20:03	11/10/21 12:34	EPA 3050B	1,6010D	GD
Beryllium, Total	0.039	J	mg/kg	0.487	0.032	2	11/08/21 20:03	11/10/21 12:34	EPA 3050B	1,6010D	GD
Cadmium, Total	ND		mg/kg	0.974	0.096	2	11/08/21 20:03	11/10/21 12:34	EPA 3050B	1,6010D	GD
Calcium, Total	242		mg/kg	9.74	3.41	2	11/08/21 20:03	11/10/21 12:34	EPA 3050B	1,6010D	GD
Chromium, Total	2.66		mg/kg	0.974	0.094	2	11/08/21 20:03	11/10/21 12:34	EPA 3050B	1,6010D	GD
Cobalt, Total	0.770	J	mg/kg	1.95	0.162	2	11/08/21 20:03	11/10/21 12:34	EPA 3050B	1,6010D	GD
Copper, Total	0.555	J	mg/kg	0.974	0.251	2	11/08/21 20:03	11/10/21 12:34	EPA 3050B	1,6010D	GD
Iron, Total	1380		mg/kg	4.87	0.880	2	11/08/21 20:03	11/10/21 12:34	EPA 3050B	1,6010D	GD
Lead, Total	1.36	J	mg/kg	4.87	0.261	2	11/08/21 20:03	11/10/21 12:34	EPA 3050B	1,6010D	GD
Magnesium, Total	416		mg/kg	9.74	1.50	2	11/08/21 20:03	11/10/21 12:34	EPA 3050B	1,6010D	GD
Manganese, Total	14.3		mg/kg	0.974	0.155	2	11/08/21 20:03	11/10/21 12:34	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.093	0.060	1	11/08/21 20:45	11/09/21 11:39	EPA 7471B	1,7471B	AC
Nickel, Total	2.70		mg/kg	2.44	0.236	2	11/08/21 20:03	11/10/21 12:34	EPA 3050B	1,6010D	GD
Potassium, Total	191	J	mg/kg	244	14.0	2	11/08/21 20:03	11/10/21 12:34	EPA 3050B	1,6010D	GD
Selenium, Total	ND		mg/kg	1.95	0.251	2	11/08/21 20:03	11/10/21 12:34	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.974	0.276	2	11/08/21 20:03	11/10/21 12:34	EPA 3050B	1,6010D	GD
Sodium, Total	300		mg/kg	195	3.07	2	11/08/21 20:03	11/10/21 12:34	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.95	0.307	2	11/08/21 20:03	11/10/21 12:34	EPA 3050B	1,6010D	GD
Vanadium, Total	2.78		mg/kg	0.974	0.198	2	11/08/21 20:03	11/10/21 12:34	EPA 3050B	1,6010D	GD
Zinc, Total	5.12		mg/kg	4.87	0.286	2	11/08/21 20:03	11/10/21 12:34	EPA 3050B	1,6010D	GD
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.7		mg/kg	0.99	0.99	1		11/10/21 12:34	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-05
Client ID: EP04_ -6.5
Sample Location: BROOKLYN, NY
Date Collected: 11/05/21 14:50
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1170		mg/kg	9.72	2.62	2	11/08/21 20:03	11/10/21 12:38	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.86	0.369	2	11/08/21 20:03	11/10/21 12:38	EPA 3050B	1,6010D	GD
Arsenic, Total	1.04		mg/kg	0.972	0.202	2	11/08/21 20:03	11/10/21 12:38	EPA 3050B	1,6010D	GD
Barium, Total	3.21		mg/kg	0.972	0.169	2	11/08/21 20:03	11/10/21 12:38	EPA 3050B	1,6010D	GD
Beryllium, Total	0.068	J	mg/kg	0.486	0.032	2	11/08/21 20:03	11/10/21 12:38	EPA 3050B	1,6010D	GD
Cadmium, Total	ND		mg/kg	0.972	0.095	2	11/08/21 20:03	11/10/21 12:38	EPA 3050B	1,6010D	GD
Calcium, Total	365		mg/kg	9.72	3.40	2	11/08/21 20:03	11/10/21 12:38	EPA 3050B	1,6010D	GD
Chromium, Total	3.86		mg/kg	0.972	0.093	2	11/08/21 20:03	11/10/21 12:38	EPA 3050B	1,6010D	GD
Cobalt, Total	1.22	J	mg/kg	1.94	0.161	2	11/08/21 20:03	11/10/21 12:38	EPA 3050B	1,6010D	GD
Copper, Total	1.01		mg/kg	0.972	0.251	2	11/08/21 20:03	11/10/21 12:38	EPA 3050B	1,6010D	GD
Iron, Total	2820		mg/kg	4.86	0.878	2	11/08/21 20:03	11/10/21 12:38	EPA 3050B	1,6010D	GD
Lead, Total	1.56	J	mg/kg	4.86	0.260	2	11/08/21 20:03	11/10/21 12:38	EPA 3050B	1,6010D	GD
Magnesium, Total	737		mg/kg	9.72	1.50	2	11/08/21 20:03	11/10/21 12:38	EPA 3050B	1,6010D	GD
Manganese, Total	32.3		mg/kg	0.972	0.154	2	11/08/21 20:03	11/10/21 12:38	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.097	0.063	1	11/08/21 20:45	11/09/21 11:42	EPA 7471B	1,7471B	AC
Nickel, Total	3.89		mg/kg	2.43	0.235	2	11/08/21 20:03	11/10/21 12:38	EPA 3050B	1,6010D	GD
Potassium, Total	279		mg/kg	243	14.0	2	11/08/21 20:03	11/10/21 12:38	EPA 3050B	1,6010D	GD
Selenium, Total	ND		mg/kg	1.94	0.251	2	11/08/21 20:03	11/10/21 12:38	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.972	0.275	2	11/08/21 20:03	11/10/21 12:38	EPA 3050B	1,6010D	GD
Sodium, Total	1080		mg/kg	194	3.06	2	11/08/21 20:03	11/10/21 12:38	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.94	0.306	2	11/08/21 20:03	11/10/21 12:38	EPA 3050B	1,6010D	GD
Vanadium, Total	4.01		mg/kg	0.972	0.197	2	11/08/21 20:03	11/10/21 12:38	EPA 3050B	1,6010D	GD
Zinc, Total	6.46		mg/kg	4.86	0.285	2	11/08/21 20:03	11/10/21 12:38	EPA 3050B	1,6010D	GD
General Chemistry - Mansfield Lab											
Chromium, Trivalent	3.9		mg/kg	1.0	1.0	1		11/10/21 12:38	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-06
Client ID: EPSW07_ -6.5
Sample Location: BROOKLYN, NY
Date Collected: 11/05/21 14:52
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1220		mg/kg	9.71	2.62	2	11/08/21 20:03	11/10/21 13:07	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.86	0.369	2	11/08/21 20:03	11/10/21 13:07	EPA 3050B	1,6010D	GD
Arsenic, Total	1.36		mg/kg	0.971	0.202	2	11/08/21 20:03	11/10/21 13:07	EPA 3050B	1,6010D	GD
Barium, Total	9.72		mg/kg	0.971	0.169	2	11/08/21 20:03	11/10/21 13:07	EPA 3050B	1,6010D	GD
Beryllium, Total	0.068	J	mg/kg	0.486	0.032	2	11/08/21 20:03	11/10/21 13:07	EPA 3050B	1,6010D	GD
Cadmium, Total	ND		mg/kg	0.971	0.095	2	11/08/21 20:03	11/10/21 13:07	EPA 3050B	1,6010D	GD
Calcium, Total	1900		mg/kg	9.71	3.40	2	11/08/21 20:03	11/10/21 13:07	EPA 3050B	1,6010D	GD
Chromium, Total	3.94		mg/kg	0.971	0.093	2	11/08/21 20:03	11/10/21 13:07	EPA 3050B	1,6010D	GD
Cobalt, Total	1.27	J	mg/kg	1.94	0.161	2	11/08/21 20:03	11/10/21 13:07	EPA 3050B	1,6010D	GD
Copper, Total	1.64		mg/kg	0.971	0.250	2	11/08/21 20:03	11/10/21 13:07	EPA 3050B	1,6010D	GD
Iron, Total	3500		mg/kg	4.86	0.877	2	11/08/21 20:03	11/10/21 13:07	EPA 3050B	1,6010D	GD
Lead, Total	4.93		mg/kg	4.86	0.260	2	11/08/21 20:03	11/10/21 13:07	EPA 3050B	1,6010D	GD
Magnesium, Total	763		mg/kg	9.71	1.50	2	11/08/21 20:03	11/10/21 13:07	EPA 3050B	1,6010D	GD
Manganese, Total	35.1		mg/kg	0.971	0.154	2	11/08/21 20:03	11/10/21 13:07	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.096	0.063	1	11/08/21 20:45	11/09/21 11:45	EPA 7471B	1,7471B	AC
Nickel, Total	3.85		mg/kg	2.43	0.235	2	11/08/21 20:03	11/10/21 13:07	EPA 3050B	1,6010D	GD
Potassium, Total	292		mg/kg	243	14.0	2	11/08/21 20:03	11/10/21 13:07	EPA 3050B	1,6010D	GD
Selenium, Total	ND		mg/kg	1.94	0.250	2	11/08/21 20:03	11/10/21 13:07	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.971	0.275	2	11/08/21 20:03	11/10/21 13:07	EPA 3050B	1,6010D	GD
Sodium, Total	455		mg/kg	194	3.06	2	11/08/21 20:03	11/10/21 13:07	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.94	0.306	2	11/08/21 20:03	11/10/21 13:07	EPA 3050B	1,6010D	GD
Vanadium, Total	4.60		mg/kg	0.971	0.197	2	11/08/21 20:03	11/10/21 13:07	EPA 3050B	1,6010D	GD
Zinc, Total	17.0		mg/kg	4.86	0.284	2	11/08/21 20:03	11/10/21 13:07	EPA 3050B	1,6010D	GD
General Chemistry - Mansfield Lab											
Chromium, Trivalent	3.9		mg/kg	1.0	1.0	1		11/10/21 13:07	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-07
Client ID: EP20_ -3
Sample Location: BROOKLYN, NY
Date Collected: 11/05/21 14:59
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	810		mg/kg	9.82	2.65	2	11/08/21 20:03	11/10/21 13:12	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.91	0.373	2	11/08/21 20:03	11/10/21 13:12	EPA 3050B	1,6010D	GD
Arsenic, Total	0.697	J	mg/kg	0.982	0.204	2	11/08/21 20:03	11/10/21 13:12	EPA 3050B	1,6010D	GD
Barium, Total	5.09		mg/kg	0.982	0.171	2	11/08/21 20:03	11/10/21 13:12	EPA 3050B	1,6010D	GD
Beryllium, Total	0.049	J	mg/kg	0.491	0.032	2	11/08/21 20:03	11/10/21 13:12	EPA 3050B	1,6010D	GD
Cadmium, Total	ND		mg/kg	0.982	0.096	2	11/08/21 20:03	11/10/21 13:12	EPA 3050B	1,6010D	GD
Calcium, Total	305		mg/kg	9.82	3.44	2	11/08/21 20:03	11/10/21 13:12	EPA 3050B	1,6010D	GD
Chromium, Total	2.70		mg/kg	0.982	0.094	2	11/08/21 20:03	11/10/21 13:12	EPA 3050B	1,6010D	GD
Cobalt, Total	0.894	J	mg/kg	1.96	0.163	2	11/08/21 20:03	11/10/21 13:12	EPA 3050B	1,6010D	GD
Copper, Total	1.94		mg/kg	0.982	0.253	2	11/08/21 20:03	11/10/21 13:12	EPA 3050B	1,6010D	GD
Iron, Total	1980		mg/kg	4.91	0.887	2	11/08/21 20:03	11/10/21 13:12	EPA 3050B	1,6010D	GD
Lead, Total	1.07	J	mg/kg	4.91	0.263	2	11/08/21 20:03	11/10/21 13:12	EPA 3050B	1,6010D	GD
Magnesium, Total	459		mg/kg	9.82	1.51	2	11/08/21 20:03	11/10/21 13:12	EPA 3050B	1,6010D	GD
Manganese, Total	22.7		mg/kg	0.982	0.156	2	11/08/21 20:03	11/10/21 13:12	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.099	0.064	1	11/08/21 20:45	11/09/21 11:49	EPA 7471B	1,7471B	AC
Nickel, Total	2.62		mg/kg	2.46	0.238	2	11/08/21 20:03	11/10/21 13:12	EPA 3050B	1,6010D	GD
Potassium, Total	212	J	mg/kg	246	14.1	2	11/08/21 20:03	11/10/21 13:12	EPA 3050B	1,6010D	GD
Selenium, Total	ND		mg/kg	1.96	0.253	2	11/08/21 20:03	11/10/21 13:12	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.982	0.278	2	11/08/21 20:03	11/10/21 13:12	EPA 3050B	1,6010D	GD
Sodium, Total	340		mg/kg	196	3.09	2	11/08/21 20:03	11/10/21 13:12	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.96	0.309	2	11/08/21 20:03	11/10/21 13:12	EPA 3050B	1,6010D	GD
Vanadium, Total	3.18		mg/kg	0.982	0.199	2	11/08/21 20:03	11/10/21 13:12	EPA 3050B	1,6010D	GD
Zinc, Total	5.35		mg/kg	4.91	0.288	2	11/08/21 20:03	11/10/21 13:12	EPA 3050B	1,6010D	GD
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.7		mg/kg	1.0	1.0	1		11/10/21 13:12	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-08
Client ID: EP27_ -3
Sample Location: BROOKLYN, NY
Date Collected: 11/05/21 15:06
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	634		mg/kg	9.42	2.54	2	11/08/21 20:03	11/10/21 13:48	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.71	0.358	2	11/08/21 20:03	11/10/21 13:48	EPA 3050B	1,6010D	GD
Arsenic, Total	0.556	J	mg/kg	0.942	0.196	2	11/08/21 20:03	11/10/21 13:48	EPA 3050B	1,6010D	GD
Barium, Total	9.04		mg/kg	0.942	0.164	2	11/08/21 20:03	11/10/21 13:48	EPA 3050B	1,6010D	GD
Beryllium, Total	0.038	J	mg/kg	0.471	0.031	2	11/08/21 20:03	11/10/21 13:48	EPA 3050B	1,6010D	GD
Cadmium, Total	ND		mg/kg	0.942	0.092	2	11/08/21 20:03	11/10/21 13:48	EPA 3050B	1,6010D	GD
Calcium, Total	1380		mg/kg	9.42	3.30	2	11/08/21 20:03	11/10/21 13:48	EPA 3050B	1,6010D	GD
Chromium, Total	3.02		mg/kg	0.942	0.090	2	11/08/21 20:03	11/10/21 13:48	EPA 3050B	1,6010D	GD
Cobalt, Total	0.659	J	mg/kg	1.88	0.156	2	11/08/21 20:03	11/10/21 13:48	EPA 3050B	1,6010D	GD
Copper, Total	2.07		mg/kg	0.942	0.243	2	11/08/21 20:03	11/10/21 13:48	EPA 3050B	1,6010D	GD
Iron, Total	1440		mg/kg	4.71	0.850	2	11/08/21 20:03	11/10/21 13:48	EPA 3050B	1,6010D	GD
Lead, Total	12.7		mg/kg	4.71	0.252	2	11/08/21 20:03	11/10/21 13:48	EPA 3050B	1,6010D	GD
Magnesium, Total	499		mg/kg	9.42	1.45	2	11/08/21 20:03	11/10/21 13:48	EPA 3050B	1,6010D	GD
Manganese, Total	17.0		mg/kg	0.942	0.150	2	11/08/21 20:03	11/10/21 13:48	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.086	0.056	1	11/08/21 20:45	11/09/21 11:52	EPA 7471B	1,7471B	AC
Nickel, Total	1.78	J	mg/kg	2.35	0.228	2	11/08/21 20:03	11/10/21 13:48	EPA 3050B	1,6010D	GD
Potassium, Total	127	J	mg/kg	235	13.6	2	11/08/21 20:03	11/10/21 13:48	EPA 3050B	1,6010D	GD
Selenium, Total	ND		mg/kg	1.88	0.243	2	11/08/21 20:03	11/10/21 13:48	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.942	0.266	2	11/08/21 20:03	11/10/21 13:48	EPA 3050B	1,6010D	GD
Sodium, Total	226		mg/kg	188	2.96	2	11/08/21 20:03	11/10/21 13:48	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.88	0.296	2	11/08/21 20:03	11/10/21 13:48	EPA 3050B	1,6010D	GD
Vanadium, Total	2.98		mg/kg	0.942	0.191	2	11/08/21 20:03	11/10/21 13:48	EPA 3050B	1,6010D	GD
Zinc, Total	22.6		mg/kg	4.71	0.276	2	11/08/21 20:03	11/10/21 13:48	EPA 3050B	1,6010D	GD
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.2	J	mg/kg	0.96	0.96	1		11/10/21 13:48	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-09
Client ID: EP26_ -3
Sample Location: BROOKLYN, NY
Date Collected: 11/05/21 15:15
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	780		mg/kg	8.96	2.42	2	11/08/21 20:03	11/10/21 13:53	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.48	0.341	2	11/08/21 20:03	11/10/21 13:53	EPA 3050B	1,6010D	GD
Arsenic, Total	0.708	J	mg/kg	0.896	0.186	2	11/08/21 20:03	11/10/21 13:53	EPA 3050B	1,6010D	GD
Barium, Total	1.95		mg/kg	0.896	0.156	2	11/08/21 20:03	11/10/21 13:53	EPA 3050B	1,6010D	GD
Beryllium, Total	0.036	J	mg/kg	0.448	0.030	2	11/08/21 20:03	11/10/21 13:53	EPA 3050B	1,6010D	GD
Cadmium, Total	ND		mg/kg	0.896	0.088	2	11/08/21 20:03	11/10/21 13:53	EPA 3050B	1,6010D	GD
Calcium, Total	133		mg/kg	8.96	3.14	2	11/08/21 20:03	11/10/21 13:53	EPA 3050B	1,6010D	GD
Chromium, Total	2.38		mg/kg	0.896	0.086	2	11/08/21 20:03	11/10/21 13:53	EPA 3050B	1,6010D	GD
Cobalt, Total	0.762	J	mg/kg	1.79	0.149	2	11/08/21 20:03	11/10/21 13:53	EPA 3050B	1,6010D	GD
Copper, Total	0.834	J	mg/kg	0.896	0.231	2	11/08/21 20:03	11/10/21 13:53	EPA 3050B	1,6010D	GD
Iron, Total	1610		mg/kg	4.48	0.810	2	11/08/21 20:03	11/10/21 13:53	EPA 3050B	1,6010D	GD
Lead, Total	0.816	J	mg/kg	4.48	0.240	2	11/08/21 20:03	11/10/21 13:53	EPA 3050B	1,6010D	GD
Magnesium, Total	403		mg/kg	8.96	1.38	2	11/08/21 20:03	11/10/21 13:53	EPA 3050B	1,6010D	GD
Manganese, Total	13.6		mg/kg	0.896	0.142	2	11/08/21 20:03	11/10/21 13:53	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.090	0.059	1	11/08/21 20:45	11/09/21 11:55	EPA 7471B	1,7471B	AC
Nickel, Total	3.99		mg/kg	2.24	0.217	2	11/08/21 20:03	11/10/21 13:53	EPA 3050B	1,6010D	GD
Potassium, Total	133	J	mg/kg	224	12.9	2	11/08/21 20:03	11/10/21 13:53	EPA 3050B	1,6010D	GD
Selenium, Total	ND		mg/kg	1.79	0.231	2	11/08/21 20:03	11/10/21 13:53	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.896	0.254	2	11/08/21 20:03	11/10/21 13:53	EPA 3050B	1,6010D	GD
Sodium, Total	51.4	J	mg/kg	179	2.82	2	11/08/21 20:03	11/10/21 13:53	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.79	0.282	2	11/08/21 20:03	11/10/21 13:53	EPA 3050B	1,6010D	GD
Vanadium, Total	3.37		mg/kg	0.896	0.182	2	11/08/21 20:03	11/10/21 13:53	EPA 3050B	1,6010D	GD
Zinc, Total	4.11	J	mg/kg	4.48	0.263	2	11/08/21 20:03	11/10/21 13:53	EPA 3050B	1,6010D	GD
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.4		mg/kg	0.92	0.92	1		11/10/21 13:53	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-10
Client ID: EP25_ -3
Sample Location: BROOKLYN, NY
Date Collected: 11/05/21 15:25
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	639		mg/kg	9.45	2.55	2	11/08/21 20:03	11/10/21 13:57	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.73	0.359	2	11/08/21 20:03	11/10/21 13:57	EPA 3050B	1,6010D	GD
Arsenic, Total	0.784	J	mg/kg	0.945	0.197	2	11/08/21 20:03	11/10/21 13:57	EPA 3050B	1,6010D	GD
Barium, Total	8.26		mg/kg	0.945	0.164	2	11/08/21 20:03	11/10/21 13:57	EPA 3050B	1,6010D	GD
Beryllium, Total	0.038	J	mg/kg	0.473	0.031	2	11/08/21 20:03	11/10/21 13:57	EPA 3050B	1,6010D	GD
Cadmium, Total	ND		mg/kg	0.945	0.093	2	11/08/21 20:03	11/10/21 13:57	EPA 3050B	1,6010D	GD
Calcium, Total	933		mg/kg	9.45	3.31	2	11/08/21 20:03	11/10/21 13:57	EPA 3050B	1,6010D	GD
Chromium, Total	2.79		mg/kg	0.945	0.091	2	11/08/21 20:03	11/10/21 13:57	EPA 3050B	1,6010D	GD
Cobalt, Total	0.747	J	mg/kg	1.89	0.157	2	11/08/21 20:03	11/10/21 13:57	EPA 3050B	1,6010D	GD
Copper, Total	1.55		mg/kg	0.945	0.244	2	11/08/21 20:03	11/10/21 13:57	EPA 3050B	1,6010D	GD
Iron, Total	1520		mg/kg	4.73	0.854	2	11/08/21 20:03	11/10/21 13:57	EPA 3050B	1,6010D	GD
Lead, Total	10.3		mg/kg	4.73	0.253	2	11/08/21 20:03	11/10/21 13:57	EPA 3050B	1,6010D	GD
Magnesium, Total	423		mg/kg	9.45	1.46	2	11/08/21 20:03	11/10/21 13:57	EPA 3050B	1,6010D	GD
Manganese, Total	14.0		mg/kg	0.945	0.150	2	11/08/21 20:03	11/10/21 13:57	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.091	0.059	1	11/08/21 20:45	11/09/21 11:58	EPA 7471B	1,7471B	AC
Nickel, Total	2.50		mg/kg	2.36	0.229	2	11/08/21 20:03	11/10/21 13:57	EPA 3050B	1,6010D	GD
Potassium, Total	153	J	mg/kg	236	13.6	2	11/08/21 20:03	11/10/21 13:57	EPA 3050B	1,6010D	GD
Selenium, Total	ND		mg/kg	1.89	0.244	2	11/08/21 20:03	11/10/21 13:57	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.945	0.267	2	11/08/21 20:03	11/10/21 13:57	EPA 3050B	1,6010D	GD
Sodium, Total	717		mg/kg	189	2.98	2	11/08/21 20:03	11/10/21 13:57	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.89	0.298	2	11/08/21 20:03	11/10/21 13:57	EPA 3050B	1,6010D	GD
Vanadium, Total	3.35		mg/kg	0.945	0.192	2	11/08/21 20:03	11/10/21 13:57	EPA 3050B	1,6010D	GD
Zinc, Total	21.6		mg/kg	4.73	0.277	2	11/08/21 20:03	11/10/21 13:57	EPA 3050B	1,6010D	GD
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.8		mg/kg	0.96	0.96	1		11/10/21 13:57	NA	107,-	

Project Name: 1607 SURF AVENUE **Lab Number:** L2161168

Project Number: 170599501 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-10 Batch: WG1568535-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	11/08/21 20:03	11/10/21 10:10	1,6010D	GD
Antimony, Total	ND		mg/kg	2.00	0.152	1	11/08/21 20:03	11/10/21 10:10	1,6010D	GD
Arsenic, Total	ND		mg/kg	0.400	0.083	1	11/08/21 20:03	11/10/21 10:10	1,6010D	GD
Barium, Total	ND		mg/kg	0.400	0.070	1	11/08/21 20:03	11/10/21 10:10	1,6010D	GD
Beryllium, Total	ND		mg/kg	0.200	0.013	1	11/08/21 20:03	11/10/21 10:10	1,6010D	GD
Cadmium, Total	ND		mg/kg	0.400	0.039	1	11/08/21 20:03	11/10/21 10:10	1,6010D	GD
Calcium, Total	ND		mg/kg	4.00	1.40	1	11/08/21 20:03	11/10/21 10:10	1,6010D	GD
Chromium, Total	ND		mg/kg	0.400	0.038	1	11/08/21 20:03	11/10/21 10:10	1,6010D	GD
Cobalt, Total	ND		mg/kg	0.800	0.066	1	11/08/21 20:03	11/10/21 10:10	1,6010D	GD
Copper, Total	ND		mg/kg	0.400	0.103	1	11/08/21 20:03	11/10/21 10:10	1,6010D	GD
Iron, Total	ND		mg/kg	2.00	0.361	1	11/08/21 20:03	11/10/21 10:10	1,6010D	GD
Lead, Total	ND		mg/kg	2.00	0.107	1	11/08/21 20:03	11/10/21 10:10	1,6010D	GD
Magnesium, Total	ND		mg/kg	4.00	0.616	1	11/08/21 20:03	11/10/21 10:10	1,6010D	GD
Manganese, Total	ND		mg/kg	0.400	0.064	1	11/08/21 20:03	11/10/21 10:10	1,6010D	GD
Nickel, Total	ND		mg/kg	1.00	0.097	1	11/08/21 20:03	11/10/21 10:10	1,6010D	GD
Potassium, Total	ND		mg/kg	100	5.76	1	11/08/21 20:03	11/10/21 10:10	1,6010D	GD
Selenium, Total	ND		mg/kg	0.800	0.103	1	11/08/21 20:03	11/10/21 10:10	1,6010D	GD
Silver, Total	ND		mg/kg	0.400	0.113	1	11/08/21 20:03	11/10/21 10:10	1,6010D	GD
Sodium, Total	ND		mg/kg	80.0	1.26	1	11/08/21 20:03	11/10/21 10:10	1,6010D	GD
Thallium, Total	ND		mg/kg	0.800	0.126	1	11/08/21 20:03	11/10/21 10:10	1,6010D	GD
Vanadium, Total	ND		mg/kg	0.400	0.081	1	11/08/21 20:03	11/10/21 10:10	1,6010D	GD
Zinc, Total	ND		mg/kg	2.00	0.117	1	11/08/21 20:03	11/10/21 10:10	1,6010D	GD

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-10 Batch: WG1568537-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	11/08/21 20:45	11/09/21 10:29	1,7471B	AC

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2161168

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1568535-2 SRM Lot Number: D109-540								
Aluminum, Total	68		-		50-150	-		
Antimony, Total	130		-		19-250	-		
Arsenic, Total	101		-		70-130	-		
Barium, Total	94		-		75-125	-		
Beryllium, Total	96		-		75-125	-		
Cadmium, Total	97		-		75-125	-		
Calcium, Total	94		-		73-128	-		
Chromium, Total	95		-		70-130	-		
Cobalt, Total	98		-		75-125	-		
Copper, Total	93		-		75-125	-		
Iron, Total	93		-		35-165	-		
Lead, Total	95		-		72-128	-		
Magnesium, Total	86		-		62-138	-		
Manganese, Total	92		-		74-126	-		
Nickel, Total	97		-		70-130	-		
Potassium, Total	81		-		59-141	-		
Selenium, Total	98		-		68-132	-		
Silver, Total	99		-		68-131	-		
Sodium, Total	91		-		35-165	-		
Thallium, Total	97		-		68-131	-		
Vanadium, Total	94		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2161168

Report Date: 11/11/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1568535-2 SRM Lot Number: D109-540					
Zinc, Total	97	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1568537-2 SRM Lot Number: D109-540					
Mercury, Total	103	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161168
Report Date: 11/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1568535-3 QC Sample: L2160977-01 Client ID: MS Sample												
Aluminum, Total	3840	179	4900	**591**	Q	-	-		75-125	-		20
Antimony, Total	20.8	44.8	61.5	91		-	-		75-125	-		20
Arsenic, Total	6.15	10.8	14.1	**74**	Q	-	-		75-125	-		20
Barium, Total	74.4	179	206	**73**	Q	-	-		75-125	-		20
Beryllium, Total	0.237	4.48	3.34	**69**	Q	-	-		75-125	-		20
Cadmium, Total	0.824	4.75	4.16	**70**	Q	-	-		75-125	-		20
Calcium, Total	9810	896	5770	**0**	Q	-	-		75-125	-		20
Chromium, Total	6.52	17.9	18.9	**69**	Q	-	-		75-125	-		20
Cobalt, Total	3.61	44.8	32.6	**65**	Q	-	-		75-125	-		20
Copper, Total	129	22.4	100	**0**	Q	-	-		75-125	-		20
Iron, Total	10500	89.6	11300	**893**	Q	-	-		75-125	-		20
Lead, Total	1550	47.5	1590	84		-	-		75-125	-		20
Magnesium, Total	5130	896	2900	**0**	Q	-	-		75-125	-		20
Manganese, Total	207	44.8	243	80		-	-		75-125	-		20
Nickel, Total	8.93	44.8	37.2	**63**	Q	-	-		75-125	-		20
Potassium, Total	262	896	928	**74**	Q	-	-		75-125	-		20
Selenium, Total	0.294J	10.8	8.02	**74**	Q	-	-		75-125	-		20
Silver, Total	ND	26.9	20.6	77		-	-		75-125	-		20
Sodium, Total	236	896	914	76		-	-		75-125	-		20
Thallium, Total	ND	10.8	6.14	**57**	Q	-	-		75-125	-		20
Vanadium, Total	11.7	44.8	43.1	**70**	Q	-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161168
Report Date: 11/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1568535-3 QC Sample: L2160977-01 Client ID: MS Sample										
Zinc, Total	282	44.8	369	**194**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1568537-3 QC Sample: L2160977-01 Client ID: MS Sample										
Mercury, Total	0.167	0.186	0.316	80		-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161168
Report Date: 11/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1568535-4 QC Sample: L2160977-01 Client ID: DUP Sample						
Aluminum, Total	3840	4070	mg/kg	6		20
Antimony, Total	20.8	6.04	mg/kg	**110**	Q	20
Arsenic, Total	6.15	3.97	mg/kg	**43**	Q	20
Barium, Total	74.4	64.0	mg/kg	15		20
Beryllium, Total	0.237	0.252	mg/kg	6		20
Cadmium, Total	0.824	0.656	mg/kg	**23**	Q	20
Chromium, Total	6.52	6.73	mg/kg	3		20
Cobalt, Total	3.61	3.55	mg/kg	2		20
Copper, Total	129	112	mg/kg	14		20
Lead, Total	1550	558	mg/kg	**94**	Q	20
Manganese, Total	207	171	mg/kg	19		20
Nickel, Total	8.93	8.04	mg/kg	10		20
Selenium, Total	0.294J	0.278J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Thallium, Total	ND	ND	mg/kg	NC		20
Vanadium, Total	11.7	12.6	mg/kg	7		20
Zinc, Total	282	212	mg/kg	**28**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1568537-4 QC Sample: L2160977-01 Client ID: DUP Sample						
Mercury, Total	0.167	0.119	mg/kg	**34**	Q	20

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2161168
Report Date: 11/11/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1568535-6 QC Sample: L2160977-01 Client ID: DUP Sample						
Aluminum, Total	3840	4430	mg/kg	15		20
Barium, Total	74.4	86.8	mg/kg	17		20
Copper, Total	129	150	mg/kg	16		20
Lead, Total	1550	2030	mg/kg	**31**	Q	20
Manganese, Total	207	248	mg/kg	20		20
Vanadium, Total	11.7	14.4	mg/kg	**23**	Q	20
Zinc, Total	282	371	mg/kg	**32**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-01
Client ID: EP05_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:15
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.7		%	0.100	NA	1	-	11/09/21 06:18	121,2540G	RM
Cyanide, Total	ND		mg/kg	1.2	0.26	1	11/10/21 09:45	11/10/21 16:35	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	1.04	0.209	1	11/08/21 18:36	11/08/21 23:30	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-02
Client ID: EP13_ -6.5
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/05/21 14:25
Date Received: 11/05/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.6		%	0.100	NA	1	-	11/09/21 06:18	121,2540G	RM
Cyanide, Total	ND		mg/kg	1.2	0.26	1	11/10/21 09:45	11/10/21 16:36	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	1.00	0.201	1	11/08/21 18:36	11/08/21 23:30	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-03
Client ID: EPSW08_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:33
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.1		%	0.100	NA	1	-	11/09/21 06:18	121,2540G	RM
Cyanide, Total	ND		mg/kg	1.2	0.26	1	11/10/21 09:45	11/10/21 16:37	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	1.01	0.202	1	11/08/21 18:36	11/08/21 23:30	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-04
Client ID: EP12_ -6.5
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/05/21 14:47
Date Received: 11/05/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.8		%	0.100	NA	1	-	11/09/21 06:18	121,2540G	RM
Cyanide, Total	ND		mg/kg	1.1	0.24	1	11/10/21 09:45	11/10/21 16:20	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.990	0.198	1	11/08/21 18:36	11/08/21 23:30	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-05
Client ID: EP04_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:50
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.7		%	0.100	NA	1	-	11/09/21 06:18	121,2540G	RM
Cyanide, Total	ND		mg/kg	1.2	0.26	1	11/10/21 09:45	11/10/21 16:22	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	1.00	0.201	1	11/08/21 18:36	11/08/21 23:30	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-06
Client ID: EPSW07_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:52
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.0		%	0.100	NA	1	-	11/09/21 06:18	121,2540G	RM
Cyanide, Total	ND		mg/kg	1.2	0.25	1	11/10/21 09:45	11/10/21 16:23	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	1.00	0.200	1	11/08/21 18:36	11/08/21 23:30	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-07
Client ID: EP20_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 14:59
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.8		%	0.100	NA	1	-	11/09/21 06:18	121,2540G	RM
Cyanide, Total	ND		mg/kg	1.2	0.26	1	11/10/21 09:45	11/10/21 16:24	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	1.02	0.203	1	11/08/21 18:36	11/08/21 23:30	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-08
Client ID: EP27_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 15:06
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.3		%	0.100	NA	1	-	11/09/21 06:18	121,2540G	RM
Cyanide, Total	ND		mg/kg	1.1	0.24	1	11/10/21 09:45	11/10/21 16:25	1,9010C/9012B	CS
Chromium, Hexavalent	0.864	J	mg/kg	0.960	0.192	1	11/08/21 18:36	11/08/21 23:30	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-09
Client ID: EP26_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 15:15
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.6		%	0.100	NA	1	-	11/09/21 06:18	121,2540G	RM
Cyanide, Total	ND		mg/kg	1.1	0.22	1	11/10/21 09:45	11/10/21 16:26	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.924	0.185	1	11/08/21 18:36	11/08/21 23:30	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161168
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2161168-10
Client ID: EP25_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/05/21 15:25
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.5		%	0.100	NA	1	-	11/09/21 06:18	121,2540G	RM
Cyanide, Total	ND		mg/kg	1.1	0.24	1	11/10/21 09:45	11/10/21 16:27	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.958	0.192	1	11/08/21 18:36	11/08/21 23:30	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161168
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1568636-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	11/08/21 18:36	11/08/21 23:30	1,7196A	NL
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1569358-1										
Cyanide, Total	ND		mg/kg	0.86	0.18	1	11/10/21 09:45	11/10/21 15:27	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 04-10 Batch: WG1569360-1										
Cyanide, Total	ND		mg/kg	0.86	0.18	1	11/10/21 09:45	11/10/21 15:27	1,9010C/9012B	CS

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2161168

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1568636-2								
Chromium, Hexavalent	86		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1569358-2 WG1569358-3								
Cyanide, Total	81		88		80-120	9		35
General Chemistry - Westborough Lab Associated sample(s): 04-10 Batch: WG1569360-2 WG1569360-3								
Cyanide, Total	81		88		80-120	9		35

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161168
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Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1568636-4 QC Sample: L2161168-10 Client ID: EP25_ -3												
Chromium, Hexavalent	ND	1100	1130	102		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1569358-4 WG1569358-5 QC Sample: L2161168-03 Client ID: EPSW08_ -6.5												
Cyanide, Total	ND	12	13	110		12	99		75-125	8		35
General Chemistry - Westborough Lab Associated sample(s): 04-10 QC Batch ID: WG1569360-4 WG1569360-5 QC Sample: L2159460-05 Client ID: MS Sample												
Cyanide, Total	1.8	10	13	110		10	77		75-125	26		35

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2161168

Report Date: 11/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1568636-6 QC Sample: L2161168-10 Client ID: EP25_ -3						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1568787-1 QC Sample: L2161168-01 Client ID: EP05_ -6.5						
Solids, Total	76.7	77.1	%	1		20

Project Name: 1607 SURF AVENUE
Project Number: 170599501

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Report Date: 11/11/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2161168-01A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2161168-01B	Vial water preserved	B	NA		4.1	Y	Absent	06-NOV-21 15:19	NYTCL-8260HLW(14)
L2161168-01C	Vial water preserved	B	NA		4.1	Y	Absent	06-NOV-21 15:19	NYTCL-8260HLW(14)
L2161168-01D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)
L2161168-01E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),TRICR-CALC(30),NI-TI(180),CR-TI(180),TL-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),MN-TI(180),HG-T(28),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2161168-01F	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		HEXCR-7196(30)
L2161168-01G	Glass 500ml/16oz unpreserved	B	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2161168-02A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2161168-02B	Vial water preserved	B	NA		4.1	Y	Absent	06-NOV-21 15:19	NYTCL-8260HLW(14)
L2161168-02C	Vial water preserved	B	NA		4.1	Y	Absent	06-NOV-21 15:19	NYTCL-8260HLW(14)
L2161168-02D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)
L2161168-02E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.1	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),CR-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2161168-02F	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		HEXCR-7196(30)
L2161168-02G	Glass 500ml/16oz unpreserved	B	NA		4.1	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2161168-03A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2161168-03B	Vial water preserved	B	NA		4.1	Y	Absent	06-NOV-21 15:19	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

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Report Date: 11/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2161168-03C	Vial water preserved	B	NA		4.1	Y	Absent	06-NOV-21 15:19	NYTCL-8260HLW(14)
L2161168-03D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)
L2161168-03E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.1	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),TRICR-CALC(30),CR-TI(180),NI-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),ZN-TI(180),SE-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),NA-TI(180),CD-TI(180),K-TI(180),CA-TI(180)
L2161168-03F	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		HEXCR-7196(30)
L2161168-03G	Glass 500ml/16oz unpreserved	B	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2161168-04A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2161168-04B	Vial water preserved	B	NA		4.1	Y	Absent	06-NOV-21 15:19	NYTCL-8260HLW(14)
L2161168-04C	Vial water preserved	B	NA		4.1	Y	Absent	06-NOV-21 15:19	NYTCL-8260HLW(14)
L2161168-04D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)
L2161168-04E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),TRICR-CALC(30),CU-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),NA-TI(180),K-TI(180),CD-TI(180),CA-TI(180)
L2161168-04F	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		HEXCR-7196(30)
L2161168-04G	Glass 500ml/16oz unpreserved	B	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2161168-05A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14),NYTCL-8260H(14)
L2161168-05B	Vial water preserved	B	NA		4.1	Y	Absent	06-NOV-21 15:19	NYTCL-8260HLW(14),NYTCL-8260H(14)
L2161168-05C	Vial water preserved	B	NA		4.1	Y	Absent	06-NOV-21 15:19	NYTCL-8260HLW(14),NYTCL-8260H(14)
L2161168-05D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)
L2161168-05E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.1	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),TRICR-CALC(30),SB-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),NA-TI(180),CD-TI(180),K-TI(180),CA-TI(180)
L2161168-05F	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161168
Report Date: 11/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2161168-05G	Glass 500ml/16oz unpreserved	B	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2161168-06A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2161168-06B	Vial water preserved	B	NA		4.1	Y	Absent	06-NOV-21 15:19	NYTCL-8260HLW(14)
L2161168-06C	Vial water preserved	B	NA		4.1	Y	Absent	06-NOV-21 15:19	NYTCL-8260HLW(14)
L2161168-06D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)
L2161168-06E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.1	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),TRICR-CALC(30),NI-TI(180),CR-TI(180),TL-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2161168-06F	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		HEXCR-7196(30)
L2161168-06G	Glass 500ml/16oz unpreserved	B	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2161168-07A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2161168-07B	Vial water preserved	B	NA		4.1	Y	Absent	06-NOV-21 15:19	NYTCL-8260HLW(14)
L2161168-07C	Vial water preserved	B	NA		4.1	Y	Absent	06-NOV-21 15:19	NYTCL-8260HLW(14)
L2161168-07D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)
L2161168-07E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.1	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),TRICR-CALC(30),AL-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2161168-07F	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		HEXCR-7196(30)
L2161168-07G	Glass 500ml/16oz unpreserved	B	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2161168-08A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2161168-08B	Vial water preserved	B	NA		4.1	Y	Absent	06-NOV-21 15:19	NYTCL-8260HLW(14)
L2161168-08C	Vial water preserved	B	NA		4.1	Y	Absent	06-NOV-21 15:19	NYTCL-8260HLW(14)
L2161168-08D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161168
Report Date: 11/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2161168-08E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.1	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),TRICR-CALC(30),NI-TI(180),TL-TI(180),AL-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),NA-TI(180),CD-TI(180),CA-TI(180),K-TI(180)
L2161168-08F	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		HEXCR-7196(30)
L2161168-08G	Glass 500ml/16oz unpreserved	B	NA		4.1	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2161168-09A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2161168-09B	Vial water preserved	B	NA		4.1	Y	Absent	06-NOV-21 15:19	NYTCL-8260HLW(14)
L2161168-09C	Vial water preserved	B	NA		4.1	Y	Absent	06-NOV-21 15:19	NYTCL-8260HLW(14)
L2161168-09D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)
L2161168-09E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.1	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),TRICR-CALC(30),NI-TI(180),AL-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),PB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2161168-09F	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		HEXCR-7196(30)
L2161168-09G	Glass 500ml/16oz unpreserved	B	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2161168-10A	Vial MeOH preserved	B	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2161168-10B	Vial water preserved	B	NA		4.1	Y	Absent	06-NOV-21 15:19	NYTCL-8260HLW(14)
L2161168-10C	Vial water preserved	B	NA		4.1	Y	Absent	06-NOV-21 15:19	NYTCL-8260HLW(14)
L2161168-10D	Plastic 2oz unpreserved for TS	B	NA		4.1	Y	Absent		TS(7)
L2161168-10E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.1	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TRICR-CALC(30),CR-TI(180),TL-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2161168-10F	Glass 120ml/4oz unpreserved	B	NA		4.1	Y	Absent		HEXCR-7196(30)
L2161168-10G	Glass 500ml/16oz unpreserved	B	NA		4.1	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)

*Values in parentheses indicate holding time in days

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2161168
Project Number:	170599501	**Report Date:**	11/11/21

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:	1607 SURF AVENUE	**Lab Number:**	L2161168
Project Number:	170599501	**Report Date:**	11/11/21

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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2161168
Project Number:	170599501	**Report Date:**	11/11/21

Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2161168
Project Number:	170599501	**Report Date:**	11/11/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

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, SM4500Cl-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, **LACHAT 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

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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 of

Date Rec'd in Lab: 11/5/21

ALPHA Job #: L2161168

Client Information
Client: Langan
Address:
Phone:
Fax:
Email: Ksemon@langan.com

Project Information
Project Name: 1607 Surf Avenue
Project Location: Brooklyn, NY
Project #: 170599501
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date: All analysis to be submitted in a 5 days TAT including PFAS
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

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:
cc: Lesmail@langan.com; datamanagement@langan.com.

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs, SVOCs	TCL Pesticides	TAL Metals	TCN	Hex/Trivalent Chromium	PFAS	1,4-Dioxane	Herbs, PCBs	Total Bottle	Sample Specific Comments
61168-01	EP05_-6.5	11/05/21	1415	S	GEC	X	X	X	X	X	X	X	X		
-02	EP13_-6.5	11/05/21	1425			X	X	X	X	X	X	X	X		
-03	EPSW08_-6.5	11/05/21	1433			X	X	X	X	X	X	X	X		
-04	EP12_-6.5	11/05/21	1447			X	X	X	X	X	X	X	X		
-05	EP04_-6.5	11/05/21	1450			X	X	X	X	X	X	X	X		
-06	EPSW07_-6.5	11/05/21	1452			X	X	X	X	X	X	X	X		
-07	EP20_-3	11/05/21	1459			X	X	X	X	X	X	X	X		
-08	EP21_-3		1506			X	X	X	X	X	X	X	X		
-09	EP26_-3		1515			X	X	X	X	X	X	X	X		
-10	EP25_-3		1525			X	X	X	X	X	X	X	X		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
Gabrielle Enriquez	11/05/21 1637	Courier	11/05/21 1637
Courier	11/5/21 1915	Paul Mazzella	11/5/21 1926
Paul Mazzella	11/5/21 2343		11/5/21 23:43

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2162739
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Kimberly Semon
Phone:	(212) 479-5486
Project Name:	1607 SURF AVE.
Project Number:	170599501
Report Date:	11/16/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2162739
Report Date: 11/16/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2162739-01	EP13_ -7.5	SOIL	BROOKLYN, NY	11/15/21 13:40	11/15/21
L2162739-02	EPSW08_ -7.5	SOIL	BROOKLYN, NY	11/15/21 13:45	11/15/21
L2162739-03	EP27_ -4	SOIL	BROOKLYN, NY	11/15/21 13:50	11/15/21

Project Name:	1607 SURF AVE.	**Lab Number:**	L2162739
Project Number:	170599501	**Report Date:**	11/16/21

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:	1607 SURF AVE.	**Lab Number:**	L2162739
Project Number:	170599501	**Report Date:**	11/16/21

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: Michelle M. Morris

Title: Technical Director/Representative Date: 11/16/21

ORGANICS

PESTICIDES

Project Name: 1607 SURF AVE.
Lab Number: L2162739
Project Number: 170599501
Report Date: 11/16/21

SAMPLE RESULTS

Lab ID: L2162739-01
Client ID: EP13_ -7.5
Sample Location: BROOKLYN, NY

Date Collected: 11/15/21 13:40
Date Received: 11/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/16/21 09:57
Analyst: AR
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 11/16/21 03:41
Cleanup Method: EPA 3620B
Cleanup Date: 11/16/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.01	0.394	1	A
Lindane	ND		ug/kg	0.838	0.375	1	A
Alpha-BHC	ND		ug/kg	0.838	0.238	1	A
Beta-BHC	ND		ug/kg	2.01	0.763	1	A
Heptachlor	ND		ug/kg	1.01	0.451	1	A
Aldrin	ND		ug/kg	2.01	0.708	1	A
Heptachlor epoxide	ND		ug/kg	3.77	1.13	1	A
Endrin	ND		ug/kg	0.838	0.344	1	A
Endrin aldehyde	ND		ug/kg	2.52	0.880	1	A
Endrin ketone	ND		ug/kg	2.01	0.518	1	A
Dieldrin	ND		ug/kg	1.26	0.629	1	A
4,4'-DDE	ND		ug/kg	2.01	0.465	1	A
4,4'-DDD	ND		ug/kg	2.01	0.718	1	A
4,4'-DDT	ND		ug/kg	3.77	1.62	1	A
Endosulfan I	ND		ug/kg	2.01	0.475	1	A
Endosulfan II	ND		ug/kg	2.01	0.672	1	A
Endosulfan sulfate	ND		ug/kg	0.838	0.399	1	A
Methoxychlor	ND		ug/kg	3.77	1.17	1	A
Toxaphene	ND		ug/kg	37.7	10.6	1	A
cis-Chlordane	ND		ug/kg	2.52	0.701	1	A
trans-Chlordane	ND		ug/kg	2.52	0.664	1	A
Chlordane	ND		ug/kg	16.8	6.66	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2162739

Project Number: 170599501 **Report Date:** 11/16/21

SAMPLE RESULTS

Lab ID: L2162739-01 Date Collected: 11/15/21 13:40

Client ID: EP13_ -7.5 Date Received: 11/15/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	132		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	110		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2162739
Report Date: 11/16/21

SAMPLE RESULTS

Lab ID: L2162739-02
Client ID: EPSW08_ -7.5
Sample Location: BROOKLYN, NY

Date Collected: 11/15/21 13:45
Date Received: 11/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/16/21 10:08
Analyst: AR
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 11/16/21 03:41
Cleanup Method: EPA 3620B
Cleanup Date: 11/16/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.99	0.390	1	A
Lindane	ND		ug/kg	0.830	0.371	1	A
Alpha-BHC	ND		ug/kg	0.830	0.236	1	A
Beta-BHC	ND		ug/kg	1.99	0.756	1	A
Heptachlor	ND		ug/kg	0.996	0.447	1	A
Aldrin	ND		ug/kg	1.99	0.702	1	A
Heptachlor epoxide	ND		ug/kg	3.74	1.12	1	A
Endrin	ND		ug/kg	0.830	0.340	1	A
Endrin aldehyde	ND		ug/kg	2.49	0.872	1	A
Endrin ketone	ND		ug/kg	1.99	0.513	1	A
Dieldrin	ND		ug/kg	1.24	0.623	1	A
4,4'-DDE	ND		ug/kg	1.99	0.461	1	A
4,4'-DDD	ND		ug/kg	1.99	0.711	1	A
4,4'-DDT	ND		ug/kg	3.74	1.60	1	A
Endosulfan I	ND		ug/kg	1.99	0.471	1	A
Endosulfan II	ND		ug/kg	1.99	0.666	1	A
Endosulfan sulfate	ND		ug/kg	0.830	0.395	1	A
Methoxychlor	ND		ug/kg	3.74	1.16	1	A
Toxaphene	ND		ug/kg	37.4	10.5	1	A
cis-Chlordane	ND		ug/kg	2.49	0.694	1	A
trans-Chlordane	ND		ug/kg	2.49	0.658	1	A
Chlordane	ND		ug/kg	16.6	6.60	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2162739

Project Number: 170599501 **Report Date:** 11/16/21

SAMPLE RESULTS

Lab ID: L2162739-02 Date Collected: 11/15/21 13:45

Client ID: EPSW08_ -7.5 Date Received: 11/15/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	137		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	108		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2162739
Project Number: 170599501
Report Date: 11/16/21

SAMPLE RESULTS

Lab ID: L2162739-03
Client ID: EP27_ -4
Sample Location: BROOKLYN, NY

Date Collected: 11/15/21 13:50
Date Received: 11/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/16/21 10:19
Analyst: AR
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 11/16/21 03:41
Cleanup Method: EPA 3620B
Cleanup Date: 11/16/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.91	0.374	1	A
Lindane	ND		ug/kg	0.797	0.356	1	A
Alpha-BHC	ND		ug/kg	0.797	0.226	1	A
Beta-BHC	ND		ug/kg	1.91	0.725	1	A
Heptachlor	ND		ug/kg	0.956	0.428	1	A
Aldrin	ND		ug/kg	1.91	0.673	1	A
Heptachlor epoxide	ND		ug/kg	3.58	1.08	1	A
Endrin	ND		ug/kg	0.797	0.327	1	A
Endrin aldehyde	ND		ug/kg	2.39	0.836	1	A
Endrin ketone	ND		ug/kg	1.91	0.492	1	A
Dieldrin	ND		ug/kg	1.19	0.597	1	A
4,4'-DDE	ND		ug/kg	1.91	0.442	1	A
4,4'-DDD	ND		ug/kg	1.91	0.682	1	A
4,4'-DDT	ND		ug/kg	3.58	1.54	1	A
Endosulfan I	ND		ug/kg	1.91	0.452	1	A
Endosulfan II	ND		ug/kg	1.91	0.639	1	A
Endosulfan sulfate	ND		ug/kg	0.797	0.379	1	A
Methoxychlor	ND		ug/kg	3.58	1.12	1	A
Toxaphene	ND		ug/kg	35.8	10.0	1	A
cis-Chlordane	ND		ug/kg	2.39	0.666	1	A
trans-Chlordane	ND		ug/kg	2.39	0.631	1	A
Chlordane	ND		ug/kg	15.9	6.33	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2162739

Project Number: 170599501 **Report Date:** 11/16/21

SAMPLE RESULTS

Lab ID: L2162739-03 Date Collected: 11/15/21 13:50

Client ID: EP27_ -4 Date Received: 11/15/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	146		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	118		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2162739
Report Date: 11/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/16/21 09:23
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 11/16/21 03:41
Cleanup Method: EPA 3620B
Cleanup Date: 11/16/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1571793-1						
Delta-BHC	ND		ug/kg	1.52	0.298	A
Lindane	ND		ug/kg	0.633	0.283	A
Alpha-BHC	ND		ug/kg	0.633	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.576	A
Heptachlor	ND		ug/kg	0.760	0.341	A
Aldrin	ND		ug/kg	1.52	0.535	A
Heptachlor epoxide	ND		ug/kg	2.85	0.855	A
Endrin	ND		ug/kg	0.633	0.260	A
Endrin aldehyde	ND		ug/kg	1.90	0.665	A
Endrin ketone	ND		ug/kg	1.52	0.391	A
Dieldrin	ND		ug/kg	0.950	0.475	A
4,4'-DDE	ND		ug/kg	1.52	0.351	A
4,4'-DDD	ND		ug/kg	1.52	0.542	A
4,4'-DDT	ND		ug/kg	2.85	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.359	A
Endosulfan II	ND		ug/kg	1.52	0.508	A
Endosulfan sulfate	ND		ug/kg	0.633	0.301	A
Methoxychlor	ND		ug/kg	2.85	0.887	A
Toxaphene	ND		ug/kg	28.5	7.98	A
cis-Chlordane	ND		ug/kg	1.90	0.529	A
trans-Chlordane	ND		ug/kg	1.90	0.502	A
Chlordane	ND		ug/kg	12.7	5.03	A

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2162739
Report Date: 11/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/16/21 09:23
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 11/16/21 03:41
Cleanup Method: EPA 3620B
Cleanup Date: 11/16/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1571793-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	101		30-150	A
Decachlorobiphenyl	146		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	113		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2162739

Report Date: 11/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1571793-2 WG1571793-3									
Delta-BHC	89		87		30-150	2		30	A
Lindane	94		92		30-150	2		30	A
Alpha-BHC	79		78		30-150	1		30	A
Beta-BHC	89		85		30-150	5		30	A
Heptachlor	104		101		30-150	3		30	A
Aldrin	93		91		30-150	2		30	A
Heptachlor epoxide	74		73		30-150	1		30	A
Endrin	100		96		30-150	4		30	A
Endrin aldehyde	91		87		30-150	4		30	A
Endrin ketone	94		92		30-150	2		30	A
Dieldrin	102		99		30-150	3		30	A
4,4'-DDE	89		87		30-150	2		30	A
4,4'-DDD	116		109		30-150	6		30	A
4,4'-DDT	103		100		30-150	3		30	A
Endosulfan I	85		84		30-150	1		30	A
Endosulfan II	101		95		30-150	6		30	A
Endosulfan sulfate	98		91		30-150	7		30	A
Methoxychlor	102		94		30-150	8		30	A
cis-Chlordane	70		69		30-150	1		30	A
trans-Chlordane	105		99		30-150	6		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2162739

Report Date: 11/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1571793-2 WG1571793-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		91		30-150	A
Decachlorobiphenyl	137		133		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		82		30-150	B
Decachlorobiphenyl	107		108		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2162739
Report Date: 11/16/21

SAMPLE RESULTS

Lab ID: L2162739-01
Client ID: EP13_ -7.5
Sample Location: BROOKLYN, NY

Date Collected: 11/15/21 13:40
Date Received: 11/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.3		%	0.100	NA	1	-	11/16/21 03:22	121,2540G	MA

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2162739
Report Date: 11/16/21

SAMPLE RESULTS

Lab ID: L2162739-02
Client ID: EPSW08_ -7.5
Sample Location: BROOKLYN, NY

Date Collected: 11/15/21 13:45
Date Received: 11/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.0		%	0.100	NA	1	-	11/16/21 03:22	121,2540G	MA

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2162739
Report Date: 11/16/21

SAMPLE RESULTS

Lab ID: L2162739-03
Client ID: EP27_ -4
Sample Location: BROOKLYN, NY

Date Collected: 11/15/21 13:50
Date Received: 11/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.3		%	0.100	NA	1	-	11/16/21 03:22	121,2540G	MA

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2162739

Report Date: 11/16/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1571791-1 QC Sample: L2162739-01 Client ID: EP13_ -7.5						
Solids, Total	79.3	78.7	%	1		20

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2162739
Report Date: 11/16/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2162739-01A	Vial Large Septa unpreserved (4oz)	A	NA		2.9	Y	Absent		TS(7),NYTCL-8081(14)
L2162739-02A	Vial Large Septa unpreserved (4oz)	A	NA		2.9	Y	Absent		TS(7),NYTCL-8081(14)
L2162739-03A	Glass 120ml/4oz unpreserved	A	NA		2.9	Y	Absent		TS(7),NYTCL-8081(14)

*Values in parentheses indicate holding time in days

Project Name:	1607 SURF AVE.	**Lab Number:**	L2162739
Project Number:	170599501	**Report Date:**	11/16/21

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:	1607 SURF AVE.	**Lab Number:**	L2162739
Project Number:	170599501	**Report Date:**	11/16/21

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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVE.	**Lab Number:**	L2162739
Project Number:	170599501	**Report Date:**	11/16/21

Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVE.	**Lab Number:**	L2162739
Project Number:	170599501	**Report Date:**	11/16/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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, SM4500Cl-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, **LACHAT 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

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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 1

Date Rec'd in Lab: 11/15/21

ALPHA Job #: L2162739

Client Information
Client: LANGAN
Address: 360 W 31st street 8th floor, NYC, NY
Phone:
Fax:
Email: KSemon@Langan.com

Project Information
Project Name: 1607 Surf Ave
Project Location: Brooklyn, NY
Project #: 170599.501
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☒ # of Days: 24 hour TAT

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

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:
Lesmail@Langan.com; Datamanagment@Langan.com

Please specify Metals or TAL.

ANALYSIS
TCL Pesticides

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL Pesticides	Sample Specific Comments
L2162739-01	EP13_-7.5	11/15/21	1340	S	AR	X	
02	EPSW08_-7.5	11/15/21	1345	S	AR	X	
03	EP27_-4	11/15/21	1350	S	AR	X	

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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

Relinquished By:	Date/Time	Received By:	Date/Time
Ali Reed (Langan)	11/15/21 1400		11/15 1400
	11/15 1800		11/15 1830
K & AL	11/15	AL	11/15/21 21:30
AL	11/15/21 23:50		11/15/21 2350

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2161328
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Kimberly Semon
Phone:	(212) 479-5486
Project Name:	1607 SURF AVENUE
Project Number:	170599501
Report Date:	11/23/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161328
Report Date: 11/23/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2161328-01	EP05_ -6.5	SOIL	BROOKLYN, NY	11/08/21 10:30	11/08/21
L2161328-02	EP13_ -6.5	SOIL	BROOKLYN, NY	11/08/21 10:35	11/08/21
L2161328-03	EPSW08_ -6.5	SOIL	BROOKLYN, NY	11/08/21 10:40	11/08/21
L2161328-04	EP12_ -6.5	SOIL	BROOKLYN, NY	11/08/21 10:45	11/08/21
L2161328-05	EP04_ -6.5	SOIL	BROOKLYN, NY	11/08/21 10:50	11/08/21
L2161328-06	EPSW07_ -6.5	SOIL	BROOKLYN, NY	11/08/21 10:55	11/08/21
L2161328-07	EP20_ -3	SOIL	BROOKLYN, NY	11/08/21 11:00	11/08/21
L2161328-08	EP27_ -3	SOIL	BROOKLYN, NY	11/08/21 11:05	11/08/21
L2161328-09	EP26_ -3	SOIL	BROOKLYN, NY	11/08/21 11:10	11/08/21
L2161328-10	EP25_ -3	SOIL	BROOKLYN, NY	11/08/21 11:15	11/08/21
L2161328-11	FB04_110821	WATER	BROOKLYN, NY	11/08/21 11:20	11/08/21

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2161328
Project Number:	170599501	**Report Date:**	11/23/21

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:	1607 SURF AVENUE	**Lab Number:**	L2161328
Project Number:	170599501	**Report Date:**	11/23/21

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.

Perfluorinated Alkyl Acids by Isotope Dilution

WG1569895-1 and WG1569895-2: The sample was re-analyzed due to QC failures in the original analysis. The results of the re-analysis are reported.

The Extracted Internal Standard recovery for the WG1570544-1 Method Blank, associated with L2161328-01 through -10, is below the acceptance criteria for perfluoro[13c8]octanesulfonamide (m8fosa) (less than 10%); however, the method blank is non-detect for all associated target analytes; therefore, no further action was taken.

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: Alycia Mogayzel

Title: Technical Director/Representative Date: 11/23/21

ORGANICS

SEMIVOLATILES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-01
Client ID: EP05_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/08/21 10:30
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/22/21 06:43
Analyst: HT
Percent Solids: 77%

Extraction Method: ALPHA 23528
Extraction Date: 11/12/21 10:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.587	0.027	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.587	0.054	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.294	0.046	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.587	0.062	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.294	0.053	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.294	0.071	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.294	0.049	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.587	0.211	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.587	0.160	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.294	0.088	1
Perfluorooctanesulfonic Acid (PFOS)	0.215	J	ng/g	0.294	0.153	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.294	0.079	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.587	0.337	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.587	0.237	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.587	0.055	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.587	0.180	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.587	0.115	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.587	0.099	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.587	0.082	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.587	0.240	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.587	0.063	1
PFOA/PFOS, Total	0.215	J	ng/g	0.294	0.049	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161328

Project Number: 170599501 **Report Date:** 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-01 Date Collected: 11/08/21 10:30

Client ID: EP05_ -6.5 Date Received: 11/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	79		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	86		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	87		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	81		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	86		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	81		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	75		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	85		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	90		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	84		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	94		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	62		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	86		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	31		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	80		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	73		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	71		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-02
Client ID: EP13_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/08/21 10:35
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/22/21 06:59
Analyst: HT
Percent Solids: 79%

Extraction Method: ALPHA 23528
Extraction Date: 11/12/21 10:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.629	0.029	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.629	0.058	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.314	0.049	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.629	0.066	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.314	0.057	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.314	0.076	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.314	0.053	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.629	0.226	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.629	0.172	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.314	0.094	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.314	0.164	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.314	0.084	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.629	0.361	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.629	0.254	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.629	0.059	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.629	0.192	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.629	0.123	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.629	0.106	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.629	0.088	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.629	0.257	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.629	0.068	1
PFOA/PFOS, Total	ND		ng/g	0.314	0.053	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161328

Project Number: 170599501 **Report Date:** 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-02 Date Collected: 11/08/21 10:35

Client ID: EP13_ -6.5 Date Received: 11/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	98		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	93		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	90		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	85		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	113		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	100		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	90		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	23		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	102		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	84		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	82		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-03
Client ID: EPSW08_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/08/21 10:40
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/22/21 07:16
Analyst: HT
Percent Solids: 79%

Extraction Method: ALPHA 23528
Extraction Date: 11/12/21 10:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.556	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.556	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.278	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.556	0.058	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.278	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.278	0.067	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.278	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.556	0.200	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.556	0.152	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.278	0.084	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.278	0.145	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.278	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.556	0.319	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.556	0.224	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.556	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.556	0.170	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.556	0.109	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.556	0.094	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.556	0.078	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.556	0.228	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.556	0.060	1
PFOA/PFOS, Total	ND		ng/g	0.278	0.047	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161328

Project Number: 170599501 **Report Date:** 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-03 Date Collected: 11/08/21 10:40

Client ID: EPSW08_ -6.5 Date Received: 11/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	98		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	106		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	106		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	90		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	92		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	96		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	120		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	94		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	96		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	39		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	89		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	88		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	78		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-04
Client ID: EP12_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/08/21 10:45
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/22/21 07:32
Analyst: HT
Percent Solids: 77%

Extraction Method: ALPHA 23528
Extraction Date: 11/12/21 10:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.586	0.027	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.586	0.054	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.293	0.046	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.586	0.062	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.293	0.053	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.293	0.071	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.293	0.049	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.586	0.210	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.586	0.160	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.293	0.088	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.293	0.152	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.293	0.079	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.586	0.336	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.586	0.236	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.586	0.055	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.586	0.179	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.586	0.115	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.586	0.099	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.586	0.082	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.586	0.240	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.586	0.063	1
PFOA/PFOS, Total	ND		ng/g	0.293	0.049	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161328

Project Number: 170599501 **Report Date:** 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-04 Date Collected: 11/08/21 10:45

Client ID: EP12_ -6.5 Date Received: 11/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	84		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	91		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	96		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	89		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	91		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	99		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	83		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	98		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	84		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	101		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	66		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	89		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	22		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	88		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	82		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	82		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-05
Client ID: EP04_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/08/21 10:50
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/22/21 07:49
Analyst: HT
Percent Solids: 74%

Extraction Method: ALPHA 23528
Extraction Date: 11/12/21 10:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.638	0.029	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.638	0.059	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.319	0.050	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.638	0.067	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.319	0.058	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.319	0.077	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.319	0.053	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.638	0.229	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.638	0.174	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.319	0.096	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.319	0.166	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.319	0.086	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.638	0.366	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.638	0.257	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.638	0.060	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.638	0.195	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.638	0.125	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.638	0.108	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.638	0.089	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.638	0.261	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.638	0.069	1
PFOA/PFOS, Total	ND		ng/g	0.319	0.053	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161328

Project Number: 170599501 **Report Date:** 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-05 Date Collected: 11/08/21 10:50

Client ID: EP04_ -6.5 Date Received: 11/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	81		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	87		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	79		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	83		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	94		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	82		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	78		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	80		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	90		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	75		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	116		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	75		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	90		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	43		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	79		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	74		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	81		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-06
Client ID: EPSW07_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/08/21 10:55
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/22/21 08:06
Analyst: HT
Percent Solids: 77%

Extraction Method: ALPHA 23528
Extraction Date: 11/12/21 10:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.615	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.615	0.057	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.308	0.048	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.615	0.065	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.308	0.056	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.308	0.074	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.308	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.615	0.221	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.615	0.168	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.308	0.092	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.308	0.160	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.308	0.082	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.615	0.353	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.615	0.248	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.615	0.058	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.615	0.188	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.615	0.121	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.615	0.104	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.615	0.086	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.615	0.252	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.615	0.066	1
PFOA/PFOS, Total	ND		ng/g	0.308	0.052	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161328

Project Number: 170599501 **Report Date:** 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-06 Date Collected: 11/08/21 10:55

Client ID: EPSW07_ -6.5 Date Received: 11/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	82		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	88		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	90		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	80		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	82		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	94		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	76		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	83		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	78		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	91		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	85		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	87		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	76		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	84		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	22		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	83		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	77		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	77		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-07
Client ID: EP20_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/08/21 11:00
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/22/21 08:22
Analyst: HT
Percent Solids: 74%

Extraction Method: ALPHA 23528
Extraction Date: 11/12/21 10:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.593	0.027	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.593	0.055	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.297	0.046	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.593	0.062	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.297	0.054	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.297	0.072	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.297	0.050	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.593	0.213	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.593	0.162	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.297	0.089	1
Perfluorooctanesulfonic Acid (PFOS)	0.243	J	ng/g	0.297	0.154	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.297	0.080	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.593	0.340	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.593	0.239	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.593	0.056	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.593	0.182	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.593	0.116	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.593	0.100	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.593	0.083	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.593	0.243	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.593	0.064	1
PFOA/PFOS, Total	0.243	J	ng/g	0.297	0.050	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161328

Project Number: 170599501 **Report Date:** 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-07 Date Collected: 11/08/21 11:00

Client ID: EP20_ -3 Date Received: 11/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	92		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	98		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	91		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	103		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	85		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	93		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	101		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	98		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	79		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	93		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	47		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	93		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	88		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	94		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-08
Client ID: EP27_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/08/21 11:05
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/22/21 08:39
Analyst: HT
Percent Solids: 78%

Extraction Method: ALPHA 23528
Extraction Date: 11/12/21 10:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.596	0.027	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.596	0.055	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.298	0.047	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.596	0.063	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.298	0.054	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.298	0.072	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.298	0.050	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.596	0.214	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.596	0.163	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.298	0.089	1
Perfluorooctanesulfonic Acid (PFOS)	0.191	J	ng/g	0.298	0.155	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.298	0.080	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.596	0.342	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.596	0.240	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.596	0.056	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.596	0.182	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.596	0.117	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.596	0.101	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.596	0.083	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.596	0.244	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.596	0.064	1
PFOA/PFOS, Total	0.191	J	ng/g	0.298	0.050	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161328

Project Number: 170599501 **Report Date:** 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-08 Date Collected: 11/08/21 11:05

Client ID: EP27_ -3 Date Received: 11/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	92		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	101		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	86		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	96		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	120		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	59		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	96		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	23		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	87		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	86		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	88		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-09
Client ID: EP26_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/08/21 11:10
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/22/21 08:55
Analyst: HT
Percent Solids: 75%

Extraction Method: ALPHA 23528
Extraction Date: 11/12/21 10:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.606	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.606	0.056	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.303	0.047	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.606	0.064	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.303	0.055	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.303	0.073	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.303	0.051	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.606	0.218	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.606	0.166	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.303	0.091	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.303	0.158	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.303	0.081	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.606	0.348	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.606	0.244	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.606	0.057	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.606	0.186	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.606	0.119	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.606	0.102	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.606	0.085	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.606	0.248	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.606	0.066	1
PFOA/PFOS, Total	ND		ng/g	0.303	0.051	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161328

Project Number: 170599501 **Report Date:** 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-09 Date Collected: 11/08/21 11:10

Client ID: EP26_ -3 Date Received: 11/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	73		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	82		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	83		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	87		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	104		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	84		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	96		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	104		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	61		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	95		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	13		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	60		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	82		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	73		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-10
Client ID: EP25_ -3
Sample Location: BROOKLYN, NY

Date Collected: 11/08/21 11:15
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/22/21 09:12
Analyst: HT
Percent Solids: 77%

Extraction Method: ALPHA 23528
Extraction Date: 11/12/21 10:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.626	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.626	0.058	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.313	0.049	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.626	0.066	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.313	0.057	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.313	0.076	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.313	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.626	0.225	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.626	0.171	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.313	0.094	1
Perfluorooctanesulfonic Acid (PFOS)	0.240	J	ng/g	0.313	0.163	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.313	0.084	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.626	0.359	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.626	0.252	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.626	0.059	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.626	0.192	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.626	0.123	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.626	0.106	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.626	0.088	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.626	0.256	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.626	0.068	1
PFOA/PFOS, Total	0.240	J	ng/g	0.313	0.052	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161328

Project Number: 170599501 **Report Date:** 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-10 Date Collected: 11/08/21 11:15

Client ID: EP25_ -3 Date Received: 11/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	101		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	89		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	87		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	109		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	83		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	91		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	110		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	90		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	112		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	83		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	100		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	16		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	89		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	89		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	88		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-11
Client ID: FB04_110821
Sample Location: BROOKLYN, NY

Date Collected: 11/08/21 11:20
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/13/21 00:18
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 11/11/21 07:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.89	0.386	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.89	0.374	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.89	0.225	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.89	0.310	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.89	0.213	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.89	0.356	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.89	0.223	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.89	1.26	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.89	0.651	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.89	0.295	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.89	0.477	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.89	0.287	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.89	1.15	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.89	0.613	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.89	0.246	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.89	0.927	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.89	0.548	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.89	0.760	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.89	0.352	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.89	0.309	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.89	0.234	1
PFOA/PFOS, Total	ND		ng/l	1.89	0.223	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2161328

Project Number: 170599501 **Report Date:** 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-11 Date Collected: 11/08/21 11:20

Client ID: FB04_110821 Date Received: 11/08/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	116		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	99		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	87		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	93		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	72		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	106		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	90		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	48		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	91		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	34		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	50		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	67		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	64		22-136

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/12/21 18:46
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 11/11/21 07:07

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 11 Batch: WG1569895-1 R					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	0.404	J	ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/12/21 18:46
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 11/11/21 07:07

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 11 Batch: WG1569895-1 R					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	90		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	117		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	94		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	91		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	94		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	66		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	103		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	84		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	51		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	93		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	37		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	55		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	73		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	64		22-136

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/22/21 06:10
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 11/12/21 10:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-10 Batch: WG1570544-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/22/21 06:10
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 11/12/21 10:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-10 Batch: WG1570544-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	75		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	80		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	88		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	77		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	82		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	91		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	80		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	74		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	82		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	87		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	76		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	99		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	73		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	87		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**9**	Q	10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	73		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	72		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	69		24-159

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161328
Report Date: 11/23/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 11 Batch: WG1569895-2								
Perfluorobutanoic Acid (PFBA)	100		-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	99		-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	102		-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	96		-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	96		-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	99		-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	97		-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	101		-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	98		-		61-179	-		30
Perfluorononanoic Acid (PFNA)	89		-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	103		-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	92		-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	94		-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	98		-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	95		-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	99		-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	96		-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	96		-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	102		-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	101		-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	103		-		59-182	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2161328

Report Date: 11/23/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 11 Batch: WG1569895-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	113				62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97				70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	94				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	93				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	92				71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92				62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	70				14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	98				59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	91				69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93				62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	83				10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	55				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	91				55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	43				10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	61				27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	79				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	68				22-136

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2161328

Report Date: 11/23/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 Batch: WG1570544-2								
Perfluorobutanoic Acid (PFBA)	100		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	99		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	101		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	100		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	98		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	114		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	99		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	107		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	106		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	104		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	125		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	104		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	85		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	95		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	96		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	100		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	120		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	117		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	105		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	112		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	92		-		69-133	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2161328

Report Date: 11/23/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 Batch: WG1570544-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	74				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	78				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	78				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	80				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	89				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	77				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	78				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	79				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	92				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	80				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	106				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	74				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	84				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	11				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	60				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	75				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	74				24-159

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1569895-3 QC Sample: L2160891-02 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	4.31	39.4	41.3	93		-	-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	1.07J	39.4	37.9	95		-	-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	35	33.0	94		-	-		65-157	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	36.9	35.7	97		-	-		37-219	-		30
Perfluorohexanoic Acid (PFHxA)	ND	39.4	36.0	91		-	-		69-168	-		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	37	37.9	102		-	-		52-156	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	39.4	36.1	92		-	-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	36	33.2	92		-	-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	0.554J	39.4	40.7	102		-	-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	37.5	33.7	90		-	-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	37.5	34.8	93		-	-		61-179	-		30
Perfluorononanoic Acid (PFNA)	ND	39.4	34.1	87		-	-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	ND	36.6	37.5	101		-	-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	ND	39.4	33.7	86		-	-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	37.8	33.1	88		-	-		56-173	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	37.9	32.2	85		-	-		48-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	39.4	38.4	98		-	-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	39.4	34.6	88		-	-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	38	32.9	87		-	-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	0.537JF	39.4	35.9F	91		-	-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	39.4	39.2	100		-	-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	ND	39.4	39.6	101		-	-		67-153	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1569895-3 QC Sample: L2160891-02 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	39.4	39.9	101		-	-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	39.4	40.8	104		-	-		59-182	-		30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	384	376	98		-	-		57-162	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	37.2	29.4	79		-	-		69-143	-		30
Perfluorohexadecanoic Acid (PFHxDA)	ND	39.4	37.8	96		-	-		40-167	-		30
Perfluorooctadecanoic Acid (PFODA)	ND	39.4	26.9	68		-	-		10-119	-		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	72				10-162
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	61				12-142
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	63				14-147
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	75				10-165
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	43				27-126
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	36				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	77				55-137
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	76				62-124
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	65				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	68				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	91				71-134
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	64				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	57				22-136
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	61				10-206

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2161328

Report Date: 11/23/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1569895-3 QC Sample: L2160891-02 Client ID: MS Sample												

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
Perfluoro[13C4]Butanoic Acid (MPFBA)	61				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	84				62-163
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	11				10-112
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	88				69-131
Perfluoro[13C8]Octanoic Acid (M8PFOA)	74				62-129
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	82				59-139
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	96				70-131

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2161328

Report Date: 11/23/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1570544-3 QC Sample: L2161589-01 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	0.160J	5.2	5.39	101		-	-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	0.087J	5.2	5.26	100		-	-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.62	4.44	96		-	-		72-128	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	4.87	5.19	107		-	-		62-145	-		30
Perfluorohexanoic Acid (PFHxA)	0.072J	5.2	5.43	103		-	-		70-132	-		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	4.89	4.53	93		-	-		73-123	-		30
Perfluoroheptanoic Acid (PFHpA)	0.066J	5.2	5.21	99		-	-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.75	5.07	107		-	-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	0.376	5.2	5.60	100		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.95	5.30	107		-	-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.95	5.75	116		-	-		70-132	-		30
Perfluorononanoic Acid (PFNA)	0.118JF	5.2	5.19	98		-	-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	2.61	4.83	9.07	134		-	-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	0.10J	5.2	5.94	112		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.99	3.85	77		-	-		65-137	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	5	5.11	102		-	-		69-125	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.2	5.35	103		-	-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	0.075JF	5.2	4.90	93		-	-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.01	5.70	114		-	-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	ND	5.2	5.66F	109		-	-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.2	4.94	95		-	-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	0.090JF	5.2	5.16	98		-	-		69-135	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161328
Report Date: 11/23/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1570544-3 QC Sample: L2161589-01 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	5.2	6.23	120		-	-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.2	5.34	103		-	-		69-133	-		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	139				19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	92				14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	97				20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	96				34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	79				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	97				61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	87				75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	97				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	108				78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	91				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	97				24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	90				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	95				58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	16				10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	97				79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	94				75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	96				72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	103				74-139

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161328
Report Date: 11/23/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1569895-4 QC Sample: L2160891-03 Client ID: DUP Sample						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/l	NC		30
Perfluoropentanoic Acid (PFPeA)	0.638J	ND	ng/l	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/l	NC		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ng/l	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/l	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/l	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/l	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/l	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/l	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161328
Report Date: 11/23/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1569895-4 QC Sample: L2160891-03 Client ID: DUP Sample						
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/l	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/l	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	ND	ng/l	NC		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ND	ng/l	NC		30
Perfluorohexadecanoic Acid (PFHxDA)	ND	ND	ng/l	NC		30
Perfluorooctadecanoic Acid (PFODA)	ND	ND	ng/l	NC		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	65		61		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	90		87		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	94		97		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	54		55		12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	69		67		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	71		70		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	89		93		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	75		73		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	57		54		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	83		81		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	88		88		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	80		76		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	70		64		10-162

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161328
Report Date: 11/23/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1569895-4 QC Sample: L2160891-03 Client ID: DUP Sample

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	41		37		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	85		75		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	17		**9**	Q	10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	40		38		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	72		64		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	67		61		22-136
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	92		99		10-165
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	75		70		10-206

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161328
Report Date: 11/23/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1570544-4 QC Sample: L2161589-02 Client ID: DUP Sample						
Perfluorobutanoic Acid (PFBA)	0.045J	0.040J	ng/g	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/g	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/g	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/g	NC		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ng/g	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/g	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/g	NC		30
Perfluorooctanoic Acid (PFOA)	0.119JF	0.077J	ng/g	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/g	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/g	NC		30
Perfluorononanoic Acid (PFNA)	ND	0.077J	ng/g	NC		30
Perfluorooctanesulfonic Acid (PFOS)	0.828	0.884	ng/g	7		30
Perfluorodecanoic Acid (PFDA)	0.220JF	0.193JF	ng/g	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/g	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/g	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/g	NC		30
Perfluoroundecanoic Acid (PFUnA)	0.216J	0.241J	ng/g	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/g	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161328
Report Date: 11/23/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1570544-4 QC Sample: L2161589-02 Client ID: DUP Sample						
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/g	NC		30
Perfluorododecanoic Acid (PFDoA)	0.202JF	0.187JF	ng/g	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/g	NC		30
Perfluorotetradecanoic Acid (PFTA)	0.101JF	0.10J	ng/g	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	67		70		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	71		76		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	88		91		74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	69		74		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	68		74		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	**69**	Q	75		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	92		93		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	**71**	Q	82		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	77		76		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	73		80		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	89		84		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	75		78		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	78		89		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	54		54		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	76		82		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	57		54		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	56		65		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	69		67		54-150

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161328
Report Date: 11/23/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1570544-4 QC Sample: L2161589-02 Client ID: DUP Sample

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	56		52		24-159

INORGANICS
&
MISCELLANEOUS

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-01
Client ID: EP05_ -6.5
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 11/08/21 10:30
Date Received: 11/08/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	76.7		%	0.100	0.100	1	-	11/11/21 16:06	121,2540G	AV

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-02
Client ID: EP13_ -6.5
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/08/21 10:35
Date Received: 11/08/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	78.7		%	0.100	0.100	1	-	11/11/21 16:06	121,2540G	AV

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-03
Client ID: EPSW08_ -6.5
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/08/21 10:40
Date Received: 11/08/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	79.0		%	0.100	0.100	1	-	11/11/21 16:06	121,2540G	AV

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-04
Client ID: EP12_ -6.5
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/08/21 10:45
Date Received: 11/08/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	76.5		%	0.100	0.100	1	-	11/11/21 16:06	121,2540G	AV

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161328
Report Date: 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-05
Client ID: EP04_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/08/21 10:50
Date Received: 11/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	74.3		%	0.100	0.100	1	-	11/11/21 16:06	121,2540G	AV

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-06
Client ID: EPSW07_ -6.5
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/08/21 10:55
Date Received: 11/08/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	77.2		%	0.100	0.100	1	-	11/11/21 16:06	121,2540G	AV

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-07
Client ID: EP20_ -3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/08/21 11:00
Date Received: 11/08/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	73.6		%	0.100	0.100	1	-	11/11/21 16:06	121,2540G	AV

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-08
Client ID: EP27_ -3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/08/21 11:05
Date Received: 11/08/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	77.7		%	0.100	0.100	1	-	11/11/21 16:06	121,2540G	AV

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-09
Client ID: EP26_ -3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/08/21 11:10
Date Received: 11/08/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	74.6		%	0.100	0.100	1	-	11/11/21 16:06	121,2540G	AV

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

SAMPLE RESULTS

Lab ID: L2161328-10
Client ID: EP25_ -3
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/08/21 11:15
Date Received: 11/08/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	76.8		%	0.100	0.100	1	-	11/11/21 16:06	121,2540G	AV

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2161328

Report Date: 11/23/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1570295-1 QC Sample: L2159906-02 Client ID: DUP Sample						
Solids, Total	60.2	57.8	%	4		10

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2161328
Report Date: 11/23/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2161328-01A	Plastic 8oz unpreserved	A	NA		2.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2161328-01B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		A2-TS(7)
L2161328-02A	Plastic 8oz unpreserved	A	NA		2.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2161328-02B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		A2-TS(7)
L2161328-03A	Plastic 8oz unpreserved	A	NA		2.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2161328-03B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		A2-TS(7)
L2161328-04A	Plastic 8oz unpreserved	A	NA		2.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2161328-04B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		A2-TS(7)
L2161328-05A	Plastic 8oz unpreserved	A	NA		2.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2161328-05B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		A2-TS(7)
L2161328-06A	Plastic 8oz unpreserved	A	NA		2.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2161328-06B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		A2-TS(7)
L2161328-07A	Plastic 8oz unpreserved	A	NA		2.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2161328-07B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		A2-TS(7)
L2161328-08A	Plastic 8oz unpreserved	A	NA		2.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2161328-08B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		A2-TS(7)
L2161328-09A	Plastic 8oz unpreserved	A	NA		2.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2161328-09B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		A2-TS(7)
L2161328-10A	Plastic 8oz unpreserved	A	NA		2.1	Y	Absent		A2-NY-537-ISOTOPE(14)
L2161328-10B	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		A2-TS(7)
L2161328-11A	Plastic 250ml unpreserved	A	NA		2.1	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2161328
Report Date: 11/23/21

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2161328
Project Number:	170599501	**Report Date:**	11/23/21

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:	1607 SURF AVENUE	**Lab Number:**	L2161328
Project Number:	170599501	**Report Date:**	11/23/21

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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2161328
Project Number:	170599501	**Report Date:**	11/23/21

Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2161328
Project Number:	170599501	**Report Date:**	11/23/21

REFERENCES

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

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, SM4500Cl-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, **LACHAT 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.

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

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8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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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: 11/9/21

ALPHA Job #: L0161328

Client Information
Client: LANGAN
Address: 360 W31st Street 8th floor, NYC, NY
Phone: 212 479 5400
Fax: 212 479 5444
Email: KSemon@langan.com

Project Information
Project Name: 1607 Surf Avenue
Project Location: Brooklyn, NY
Project #: 170595501
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☐
Rush (only if pre approved) ☒
Due Date: All Analyses to be submitted on a 5-# of Days: day TAT including PFAS

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ 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:
CC: Lesmail@Langan.com; Datamanagment@langan.com

Please specify Metals or TAL.

ANALYSIS
PFAS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PFAS	Sample Specific Comments
L1328-01	EP05_-6.5	11/08/21	1030	S	AR	X	
-02	EP13_-6.5		1035		AR	X	
-03	EPSW08_-6.5		1040		AR	X	
-04	EP12_-6.5		1045		AR	X	
-05	EP04_-6.5		1050		AR	X	
-06	EPSW07_-6.5		1055		AR	X	
-07	EP20_-3		1100		AR	X	
-08	EP27_-3		1105		AR	X	
-09	EP26_-3		1110		AR	X	
-10	EP25_-3		1115		AR	X	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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								
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	Received By:	Date/Time
AR (Langan)	11/08/21 1348		
Paul Mazzella	11/8/21 1800	Paul Mazzella	11/8/21 1800
	11/8/21 2300		11/8/21 2300
Wendy Manning	11/9/21 2:30		
	11/9/21 0400		11/9/21 0230

11/9/21 0400 AR

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
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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: 11/9/21

ALPHA Job # L2161328

Client Information
Client: LANGAN
Address: 360 W31st Street 8th floor, NYC, NY
Phone: 212 479 5400
Fax: 212 479 5444
Email: KSeman@Langan.com

Project Information
Project Name: 1607 Sorf Avenue
Project Location: Brooklyn, NY
Project # 170599501
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☐
Rush (only if pre approved) ☒
Due Date: All analyses to be submitted on a 5-day TAT including PFAS
# of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ 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:
CC: Lesmail@Langan.com, Data management@Langan.com

Please specify Metals or TAL.

ANALYSIS
PFAS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PFAS	Total Bottle	Sample Specific Comments
-11	FB04 - 110821	11/08/21	1120	AQ	AR	X		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
Phi Reah (Langan)	11/08/21 1348		
Paul Mazzella	11/8/21 1800	Paul Mazzella	11/8/21 1800
		Wendy Maloney	11/9/21 0300
Wendy Maloney	11/9/21 2130		

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.)

11/9/21 0400 AR

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2163526
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Kimberly Semon
Phone:	(212) 479-5486
Project Name:	1607 SURF AVENUE
Project Number:	170599501
Report Date:	12/03/21

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2163526-01	EP19_1	SOIL	BROOKLYN, NY	11/17/21 13:00	11/17/21
L2163526-02	EPSW01_ -6.5	SOIL	BROOKLYN, NY	11/17/21 13:10	11/17/21
L2163526-03	EPSW06_ -6.5	SOIL	BROOKLYN, NY	11/17/21 13:20	11/17/21
L2163526-04	DUP05_111721	SOIL	BROOKLYN, NY	11/17/21 00:00	11/17/21
L2163526-05	FB05_111721	WATER	BROOKLYN, NY	11/17/21 13:30	11/17/21
L2163526-06	TRIP BLANK	WATER	BROOKLYN, NY	11/17/21 00:00	11/17/21

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2163526
Project Number:	170599501	**Report Date:**	12/03/21

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: 1607 SURF AVENUE **Lab Number:** L2163526
Project Number: 170599501 **Report Date:** 12/03/21

Case Narrative (continued)

Report Submission
December 03, 2021: This final report includes the results of all requested analyses.
November 24, 2021: This is a preliminary report.
November 19, 2021: This is a preliminary report.

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

Sample Receipt
L2163526-06: A sample identified as "TRIP BLANK" was received, but not listed on the Chain of Custody. At the client's request, this sample was not analyzed.

Semivolatile Organics
The WG1573099-2/-3 LCS/LCSD recoveries, associated with L2163526-02 and -03, are below the acceptance criteria for benzoic acid (3%/2%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.
The WG1574113-2 LCS recovery, associated with L2163526-01 and -04, is below the acceptance criteria for benzoic acid (5%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Perfluorinated Alkyl Acids by Isotope Dilution
L2163526-01, -04, -05, WG1573434-1, WG1573087-2, and WG1573434-2: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.
L2163526-03: The MeOH fraction of the extraction is reported for perfluorooctanesulfonamide (fosa) due to better extraction efficiency of the perfluoro[13c8]octanesulfonamide (m8fosa) Extracted Internal Standard.
The Extracted Internal Standard recovery for the WG1573087-1 Method Blank, associated with L2163526-01

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2163526
Project Number:	170599501	**Report Date:**	12/03/21

Case Narrative (continued)

through -04, is below the acceptance criteria for perfluoro[13c8]octanesulfonamide (m8fosa) (less than 10%); however, the method blank is non-detect for all associated target analytes; therefore, no further action was taken.
WG1573087-2: The Extracted Internal Standard recovery is below the acceptance criteria for perfluoro[13c8]octanesulfonamide (m8fosa) (less than 10%); however, all associated target analytes are within criteria; therefore, no further action was taken.

Total Metals
L2163526-01 through -04: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

Cyanide, Total
The WG1573062-2 LCS recovery for cyanide, total (56%), associated with L2163526-02 and -03, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported. The LCS/LCSD RPD is above the acceptance criteria for cyanide, total (46%).
The WG1574286-2/-3 LCS/LCSD recoveries for cyanide, total (73%/73%), associated with L2163526-01 and -04, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.
The WG1573459-4 MS recovery, performed on L2163526-05, is outside the acceptance criteria for cyanide, total (15%); however, the associated LCS recovery is within criteria. No further action was taken. The MS/MSD RPD is above the acceptance criteria for cyanide, total (151%).

Hexavalent Chromium
The WG1573170-5 Soluble MS recovery for chromium, hexavalent (60%), performed on L2163526-03, was outside the acceptance criteria. This has been attributed to matrix interference. A post-spike was performed with a recovery of 88%.

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: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 12/03/21

ORGANICS

VOLATILES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-01
Client ID: EP19_1
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:00
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/24/21 10:52
Analyst: LAC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.0	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.60	0.24	1
Chlorobenzene	ND		ug/kg	0.60	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.84	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	0.20	1
Bromodichloromethane	ND		ug/kg	0.60	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.60	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.60	0.19	1
Bromoform	ND		ug/kg	4.8	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	0.20	1
Benzene	ND		ug/kg	0.60	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.70	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-01 Date Collected: 11/17/21 13:00

Client ID: EP19_1 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.60	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.60	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.8	0.79	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-01 Date Collected: 11/17/21 13:00

Client ID: EP19_1 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	97	42.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.46	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	107		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-02
Client ID: EPSW01_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:10
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/19/21 11:42
Analyst: MV
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.2	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.2	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.16	1
Dibromochloromethane	ND		ug/kg	1.2	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	ND		ug/kg	0.62	0.24	1
Chlorobenzene	ND		ug/kg	0.62	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.87	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	0.21	1
Bromodichloromethane	ND		ug/kg	0.62	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.62	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.62	0.20	1
Bromoform	ND		ug/kg	5.0	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	0.21	1
Benzene	ND		ug/kg	0.62	0.21	1
Toluene	ND		ug/kg	1.2	0.68	1
Ethylbenzene	ND		ug/kg	1.2	0.18	1
Chloromethane	ND		ug/kg	5.0	1.2	1
Bromomethane	ND		ug/kg	2.5	0.73	1
Vinyl chloride	ND		ug/kg	1.2	0.42	1
Chloroethane	ND		ug/kg	2.5	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-02 Date Collected: 11/17/21 13:10

Client ID: EPSW01_ -6.5 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.62	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.70	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.5	0.30	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	6.0	1
Carbon disulfide	ND		ug/kg	12	5.7	1
2-Butanone	ND		ug/kg	12	2.8	1
Vinyl acetate	ND		ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	12	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.35	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.62	0.16	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.21	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.15	1
o-Chlorotoluene	ND		ug/kg	2.5	0.24	1
p-Chlorotoluene	ND		ug/kg	2.5	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.2	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.14	1
Naphthalene	ND		ug/kg	5.0	0.81	1
Acrylonitrile	ND		ug/kg	5.0	1.4	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-02 Date Collected: 11/17/21 13:10

Client ID: EPSW01_ -6.5 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1
1,4-Dioxane	ND		ug/kg	100	44.	1
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1
p-Ethyltoluene	ND		ug/kg	2.5	0.48	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.5	0.24	1
Ethyl ether	ND		ug/kg	2.5	0.43	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	119		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-03
Client ID: EPSW06_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:20
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/19/21 11:17
Analyst: MV
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	5.5	J	ug/kg	6.8	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.36	1
Tetrachloroethene	1.4		ug/kg	0.68	0.27	1
Chlorobenzene	ND		ug/kg	0.68	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.94	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.68	0.23	1
Bromodichloromethane	ND		ug/kg	0.68	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.68	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.68	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.68	0.22	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.68	0.22	1
Benzene	ND		ug/kg	0.68	0.22	1
Toluene	ND		ug/kg	1.4	0.74	1
Ethylbenzene	ND		ug/kg	1.4	0.19	1
Chloromethane	ND		ug/kg	5.4	1.3	1
Bromomethane	ND		ug/kg	2.7	0.79	1
Vinyl chloride	ND		ug/kg	1.4	0.45	1
Chloroethane	ND		ug/kg	2.7	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.19	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-03 Date Collected: 11/17/21 13:20

Client ID: EPSW06_ -6.5 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.21	J	ug/kg	0.68	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.76	1
o-Xylene	ND		ug/kg	1.4	0.40	1
Xylenes, Total	ND		ug/kg	1.4	0.40	1
cis-1,2-Dichloroethene	0.55	J	ug/kg	1.4	0.24	1
1,2-Dichloroethene, Total	0.55	J	ug/kg	1.4	0.19	1
Dibromomethane	ND		ug/kg	2.7	0.32	1
Styrene	ND		ug/kg	1.4	0.27	1
Dichlorodifluoromethane	ND		ug/kg	14	1.2	1
Acetone	11	J	ug/kg	14	6.5	1
Carbon disulfide	ND		ug/kg	14	6.2	1
2-Butanone	ND		ug/kg	14	3.0	1
Vinyl acetate	ND		ug/kg	14	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	0.17	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.38	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.68	0.18	1
Bromobenzene	ND		ug/kg	2.7	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.7	0.16	1
o-Chlorotoluene	ND		ug/kg	2.7	0.26	1
p-Chlorotoluene	ND		ug/kg	2.7	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.23	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.4	0.88	1
Acrylonitrile	ND		ug/kg	5.4	1.6	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-03 Date Collected: 11/17/21 13:20

Client ID: EPSW06_ -6.5 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
1,4-Dioxane	ND		ug/kg	110	48.	1
p-Diethylbenzene	ND		ug/kg	2.7	0.24	1
p-Ethyltoluene	ND		ug/kg	2.7	0.52	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.7	0.26	1
Ethyl ether	ND		ug/kg	2.7	0.46	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	104		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-04
Client ID: DUP05_111721
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 00:00
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/24/21 09:09
Analyst: MV
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.31	1
Tetrachloroethene	0.91		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.80	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.57	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	ND		ug/kg	1.1	0.62	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.67	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-04 Date Collected: 11/17/21 00:00

Client ID: DUP05_111721 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.5	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.14	1
2-Hexanone	ND		ug/kg	11	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.57	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.6	0.75	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-04 Date Collected: 11/17/21 00:00

Client ID: DUP05_111721 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	92	40.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

Project Name: 1607 SURF AVENUE
Lab Number: L2163526
Project Number: 170599501
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-05
Client ID: FB05_111721
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:30
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/18/21 11:13
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-05 Date Collected: 11/17/21 13:30

Client ID: FB05_111721 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-05 Date Collected: 11/17/21 13:30

Client ID: FB05_111721 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	120		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/19/21 08:22
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-03 Batch: WG1573630-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/19/21 08:22
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-03 Batch: WG1573630-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1607 SURF AVENUE
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/19/21 08:22
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-03 Batch: WG1573630-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	106		70-130

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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/18/21 08:53
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1573668-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
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Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1573668-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 1607 SURF AVENUE
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/18/21 08:53
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1573668-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	119		70-130

Project Name: 1607 SURF AVENUE
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/24/21 07:26
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,04 Batch: WG1575726-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1607 SURF AVENUE
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Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/24/21 07:26
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,04 Batch: WG1575726-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1607 SURF AVENUE
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/24/21 07:26
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,04 Batch: WG1575726-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-03 Batch: WG1573630-3 WG1573630-4								
Methylene chloride	93		90		70-130	3		30
1,1-Dichloroethane	97		95		70-130	2		30
Chloroform	116		108		70-130	7		30
Carbon tetrachloride	121		126		70-130	4		30
1,2-Dichloropropane	98		96		70-130	2		30
Dibromochloromethane	97		95		70-130	2		30
1,1,2-Trichloroethane	100		100		70-130	0		30
Tetrachloroethene	97		96		70-130	1		30
Chlorobenzene	104		102		70-130	2		30
Trichlorofluoromethane	102		99		70-139	3		30
1,2-Dichloroethane	98		95		70-130	3		30
1,1,1-Trichloroethane	118		124		70-130	5		30
Bromodichloromethane	105		102		70-130	3		30
trans-1,3-Dichloropropene	111		109		70-130	2		30
cis-1,3-Dichloropropene	107		104		70-130	3		30
1,1-Dichloropropene	120		120		70-130	0		30
Bromoform	**135**	Q	124		70-130	8		30
1,1,2,2-Tetrachloroethane	110		**138**	Q	70-130	23		30
Benzene	114		116		70-130	2		30
Toluene	101		100		70-130	1		30
Ethylbenzene	102		100		70-130	2		30
Chloromethane	97		95		52-130	2		30
Bromomethane	108		106		57-147	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-03 Batch: WG1573630-3 WG1573630-4								
Vinyl chloride	97		92		67-130	5		30
Chloroethane	103		93		50-151	10		30
1,1-Dichloroethene	98		96		65-135	2		30
trans-1,2-Dichloroethene	100		97		70-130	3		30
Trichloroethene	100		99		70-130	1		30
1,2-Dichlorobenzene	104		102		70-130	2		30
1,3-Dichlorobenzene	104		120		70-130	14		30
1,4-Dichlorobenzene	103		103		70-130	0		30
Methyl tert butyl ether	98		95		66-130	3		30
p/m-Xylene	121		104		70-130	15		30
o-Xylene	**139**	Q	130		70-130	7		30
cis-1,2-Dichloroethene	100		98		70-130	2		30
Dibromomethane	100		98		70-130	2		30
Styrene	119		113		70-130	5		30
Dichlorodifluoromethane	76		75		30-146	1		30
Acetone	112		109		54-140	3		30
Carbon disulfide	95		92		59-130	3		30
2-Butanone	**155**	Q	**151**	Q	70-130	3		30
Vinyl acetate	118		113		70-130	4		30
4-Methyl-2-pentanone	102		101		70-130	1		30
1,2,3-Trichloropropane	103		130		68-130	23		30
2-Hexanone	112		107		70-130	5		30
Bromochloromethane	116		98		70-130	17		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-03 Batch: WG1573630-3 WG1573630-4								
2,2-Dichloropropane	125		103		70-130	19		30
1,2-Dibromoethane	107		105		70-130	2		30
1,3-Dichloropropane	101		99		69-130	2		30
1,1,1,2-Tetrachloroethane	106		105		70-130	1		30
Bromobenzene	101		**137**	Q	70-130	30		30
n-Butylbenzene	110		110		70-130	0		30
sec-Butylbenzene	109		**139**	Q	70-130	24		30
tert-Butylbenzene	106		**140**	Q	70-130	28		30
o-Chlorotoluene	126		**163**	Q	70-130	26		30
p-Chlorotoluene	108		**140**	Q	70-130	26		30
1,2-Dibromo-3-chloropropane	104		100		68-130	4		30
Hexachlorobutadiene	88		90		67-130	2		30
Isopropylbenzene	**134**	Q	127		70-130	5		30
p-Isopropyltoluene	109		**131**	Q	70-130	18		30
Naphthalene	108		105		70-130	3		30
Acrylonitrile	106		98		70-130	8		30
n-Propylbenzene	108		**139**	Q	70-130	25		30
1,2,3-Trichlorobenzene	99		97		70-130	2		30
1,2,4-Trichlorobenzene	102		100		70-130	2		30
1,3,5-Trimethylbenzene	107		**140**	Q	70-130	27		30
1,2,4-Trimethylbenzene	105		**136**	Q	70-130	26		30
1,4-Dioxane	102		101		65-136	1		30
p-Diethylbenzene	113		112		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-03 Batch: WG1573630-3 WG1573630-4								
p-Ethyltoluene	111		**145**	Q	70-130	27		30
1,2,4,5-Tetramethylbenzene	113		112		70-130	1		30
Ethyl ether	96		92		67-130	4		30
trans-1,4-Dichloro-2-butene	116		**140**	Q	70-130	19		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		103		70-130
Toluene-d8	104		104		70-130
4-Bromofluorobenzene	104		**146**	Q	70-130
Dibromofluoromethane	118		125		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1573668-3 WG1573668-4								
Methylene chloride	92		100		70-130	8		20
1,1-Dichloroethane	100		110		70-130	10		20
Chloroform	98		100		70-130	2		20
Carbon tetrachloride	94		98		63-132	4		20
1,2-Dichloropropane	100		110		70-130	10		20
Dibromochloromethane	92		97		63-130	5		20
1,1,2-Trichloroethane	92		96		70-130	4		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	96		99		62-150	3		20
1,2-Dichloroethane	100		110		70-130	10		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	96		100		67-130	4		20
trans-1,3-Dichloropropene	87		90		70-130	3		20
cis-1,3-Dichloropropene	90		95		70-130	5		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	84		90		54-136	7		20
1,1,2,2-Tetrachloroethane	93		100		67-130	7		20
Benzene	100		100		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	96		98		64-130	2		20
Bromomethane	74		83		39-139	11		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1573668-3 WG1573668-4								
Vinyl chloride	100		110		55-140	10		20
Chloroethane	99		120		55-138	19		20
1,1-Dichloroethene	100		110		61-145	10		20
trans-1,2-Dichloroethene	95		100		70-130	5		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	76		91		63-130	18		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	96		100		70-130	4		20
Dibromomethane	95		100		70-130	5		20
1,2,3-Trichloropropane	98		100		64-130	2		20
Acrylonitrile	92		100		70-130	8		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	75		74		36-147	1		20
Acetone	110		110		58-148	0		20
Carbon disulfide	100		110		51-130	10		20
2-Butanone	92		100		63-138	8		20
Vinyl acetate	84		100		70-130	17		20
4-Methyl-2-pentanone	78		86		59-130	10		20
2-Hexanone	91		100		57-130	9		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1573668-3 WG1573668-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	87		96		63-133	10		20
1,2-Dibromoethane	93		97		70-130	4		20
1,3-Dichloropropane	97		100		70-130	3		20
1,1,1,2-Tetrachloroethane	90		92		64-130	2		20
Bromobenzene	100		100		70-130	0		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	100		100		70-130	0		20
o-Chlorotoluene	100		100		70-130	0		20
p-Chlorotoluene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	78		91		41-144	15		20
Hexachlorobutadiene	88		91		63-130	3		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	79		90		70-130	13		20
n-Propylbenzene	100		110		69-130	10		20
1,2,3-Trichlorobenzene	83		91		70-130	9		20
1,2,4-Trichlorobenzene	86		91		70-130	6		20
1,3,5-Trimethylbenzene	97		99		64-130	2		20
1,2,4-Trimethylbenzene	97		99		70-130	2		20
1,4-Dioxane	60		70		56-162	15		20
p-Diethylbenzene	98		100		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1573668-3 WG1573668-4								
p-Ethyltoluene	100		110		70-130	10		20
1,2,4,5-Tetramethylbenzene	92		95		70-130	3		20
Ethyl ether	80		88		59-134	10		20
trans-1,4-Dichloro-2-butene	96		100		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	113		115		70-130
Toluene-d8	104		102		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	109		110		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,04 Batch: WG1575726-3 WG1575726-4								
Methylene chloride	97		96		70-130	1		30
1,1-Dichloroethane	101		98		70-130	3		30
Chloroform	96		96		70-130	0		30
Carbon tetrachloride	100		101		70-130	1		30
1,2-Dichloropropane	98		99		70-130	1		30
Dibromochloromethane	93		96		70-130	3		30
1,1,2-Trichloroethane	91		96		70-130	5		30
Tetrachloroethene	103		99		70-130	4		30
Chlorobenzene	97		96		70-130	1		30
Trichlorofluoromethane	96		91		70-139	5		30
1,2-Dichloroethane	96		99		70-130	3		30
1,1,1-Trichloroethane	104		101		70-130	3		30
Bromodichloromethane	95		97		70-130	2		30
trans-1,3-Dichloropropene	87		92		70-130	6		30
cis-1,3-Dichloropropene	101		105		70-130	4		30
1,1-Dichloropropene	102		101		70-130	1		30
Bromoform	83		88		70-130	6		30
1,1,2,2-Tetrachloroethane	96		100		70-130	4		30
Benzene	97		96		70-130	1		30
Toluene	97		97		70-130	0		30
Ethylbenzene	100		97		70-130	3		30
Chloromethane	102		97		52-130	5		30
Bromomethane	96		91		57-147	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,04 Batch: WG1575726-3 WG1575726-4								
Vinyl chloride	102		98		67-130	4		30
Chloroethane	83		81		50-151	2		30
1,1-Dichloroethene	100		96		65-135	4		30
trans-1,2-Dichloroethene	97		94		70-130	3		30
Trichloroethene	104		100		70-130	4		30
1,2-Dichlorobenzene	97		95		70-130	2		30
1,3-Dichlorobenzene	102		97		70-130	5		30
1,4-Dichlorobenzene	100		95		70-130	5		30
Methyl tert butyl ether	104		111		66-130	7		30
p/m-Xylene	101		98		70-130	3		30
o-Xylene	98		97		70-130	1		30
cis-1,2-Dichloroethene	95		94		70-130	1		30
Dibromomethane	85		89		70-130	5		30
Styrene	99		98		70-130	1		30
Dichlorodifluoromethane	112		105		30-146	6		30
Acetone	71		70		54-140	1		30
Carbon disulfide	93		91		59-130	2		30
2-Butanone	73		80		70-130	9		30
Vinyl acetate	93		102		70-130	9		30
4-Methyl-2-pentanone	88		98		70-130	11		30
1,2,3-Trichloropropane	96		99		68-130	3		30
2-Hexanone	84		96		70-130	13		30
Bromochloromethane	95		97		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,04 Batch: WG1575726-3 WG1575726-4								
2,2-Dichloropropane	105		102		70-130	3		30
1,2-Dibromoethane	94		99		70-130	5		30
1,3-Dichloropropane	92		96		69-130	4		30
1,1,1,2-Tetrachloroethane	90		92		70-130	2		30
Bromobenzene	98		95		70-130	3		30
n-Butylbenzene	110		102		70-130	8		30
sec-Butylbenzene	109		102		70-130	7		30
tert-Butylbenzene	108		101		70-130	7		30
o-Chlorotoluene	120		114		70-130	5		30
p-Chlorotoluene	107		100		70-130	7		30
1,2-Dibromo-3-chloropropane	85		91		68-130	7		30
Hexachlorobutadiene	97		91		67-130	6		30
Isopropylbenzene	106		98		70-130	8		30
p-Isopropyltoluene	112		104		70-130	7		30
Naphthalene	94		96		70-130	2		30
Acrylonitrile	94		101		70-130	7		30
n-Propylbenzene	107		99		70-130	8		30
1,2,3-Trichlorobenzene	95		94		70-130	1		30
1,2,4-Trichlorobenzene	98		96		70-130	2		30
1,3,5-Trimethylbenzene	110		102		70-130	8		30
1,2,4-Trimethylbenzene	107		101		70-130	6		30
1,4-Dioxane	86		92		65-136	7		30
p-Diethylbenzene	109		101		70-130	8		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,04 Batch: WG1575726-3 WG1575726-4								
p-Ethyltoluene	104		98		70-130	6		30
1,2,4,5-Tetramethylbenzene	105		100		70-130	5		30
Ethyl ether	94		98		67-130	4		30
trans-1,4-Dichloro-2-butene	98		109		70-130	11		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		96		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	106		105		70-130
Dibromofluoromethane	94		95		70-130

SEMIVOLATILES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-01
Client ID: EP19_1
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:00
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/23/21 17:46
Analyst: EK
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 11/22/21 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-01 Date Collected: 11/17/21 13:00

Client ID: EP19_1 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	27.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	280	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: 1607 SURF AVENUE
Lab Number: L2163526
Project Number: 170599501
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-01
Client ID: EP19_1
Sample Location: BROOKLYN, NY
Date Collected: 11/17/21 13:00
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	67		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-01
Client ID: EP19_1
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:00
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/01/21 18:25
Analyst: HT
Percent Solids: 84%

Extraction Method: ALPHA 23528
Extraction Date: 11/18/21 13:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.526	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.526	0.048	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.263	0.041	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.526	0.055	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.263	0.047	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.263	0.064	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.263	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.526	0.189	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.526	0.143	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.263	0.079	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.263	0.137	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.263	0.070	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.526	0.302	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.526	0.212	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.526	0.049	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.526	0.161	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.526	0.103	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.526	0.089	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.526	0.074	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.526	0.215	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.526	0.057	1
PFOA/PFOS, Total	ND		ng/g	0.263	0.044	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-01 Date Collected: 11/17/21 13:00

Client ID: EP19_1 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	95		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	95		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	95		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	98		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	103		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	93		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**159**	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	153		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	107		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	66		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	111		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	79		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	64		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-02
Client ID: EPSW01_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:10
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/19/21 00:37
Analyst: WR
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 11/18/21 11:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	44.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	200	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	200	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	55.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-02 Date Collected: 11/17/21 13:10

Client ID: EPSW01_ -6.5 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	37.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	ND		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	170	34.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	26.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	50.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	72.	1
2-Nitrophenol	ND		ug/kg	470	82.	1
4-Nitrophenol	ND		ug/kg	300	89.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	570	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1607 SURF AVENUE
Lab Number: L2163526
Project Number: 170599501
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-02
Client ID: EPSW01_ -6.5
Sample Location: BROOKLYN, NY
Date Collected: 11/17/21 13:10
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	42.	1
Benzoic Acid	ND		ug/kg	710	220	1
Benzyl Alcohol	ND		ug/kg	220	67.	1
Carbazole	ND		ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	33	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	56		30-120
2,4,6-Tribromophenol	45		10-136
4-Terphenyl-d14	48		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-02
Client ID: EPSW01_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:10
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/01/21 18:42
Analyst: HT
Percent Solids: 76%

Extraction Method: ALPHA 23528
Extraction Date: 11/18/21 13:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.625	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.625	0.058	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.313	0.049	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.625	0.066	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.313	0.056	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.313	0.076	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.313	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.625	0.224	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.625	0.171	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.313	0.094	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.313	0.162	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.313	0.084	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.625	0.359	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.625	0.252	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.625	0.059	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.625	0.191	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.625	0.122	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.625	0.106	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.625	0.088	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.625	0.256	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.625	0.068	1
PFOA/PFOS, Total	ND		ng/g	0.313	0.052	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-02 Date Collected: 11/17/21 13:10

Client ID: EPSW01_ -6.5 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	91		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	91		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	99		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	90		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	145		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	97		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	157		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	95		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	97		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	12		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	105		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	75		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	59		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-03
Client ID: EPSW06_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:20
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/19/21 01:01
Analyst: WR
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 11/18/21 11:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	25	J	ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	380		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	41	J	ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-03 Date Collected: 11/17/21 13:20

Client ID: EPSW06_ -6.5 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	180		ug/kg	110	20.	1
Benzo(a)pyrene	150		ug/kg	140	44.	1
Benzo(b)fluoranthene	210		ug/kg	110	31.	1
Benzo(k)fluoranthene	64	J	ug/kg	110	29.	1
Chrysene	170		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	58	J	ug/kg	110	35.	1
Benzo(ghi)perylene	120	J	ug/kg	140	21.	1
Fluorene	30	J	ug/kg	180	18.	1
Phenanthrene	210		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	30	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	140		ug/kg	140	25.	1
Pyrene	310		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	20	J	ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 1607 SURF AVENUE
Lab Number: L2163526
Project Number: 170599501
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-03
Client ID: EPSW06_ -6.5
Sample Location: BROOKLYN, NY
Date Collected: 11/17/21 13:20
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	23	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	94		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	69		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-03
Client ID: EPSW06_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:20
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/01/21 18:58
Analyst: HT
Percent Solids: 91%

Extraction Method: ALPHA 23528
Extraction Date: 11/18/21 13:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.525	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.525	0.048	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.262	0.041	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.525	0.055	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.262	0.047	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.262	0.064	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.262	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.525	0.188	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.525	0.143	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.262	0.079	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.262	0.136	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.262	0.070	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.525	0.301	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.525	0.212	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.525	0.049	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.525	0.161	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.525	0.089	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.525	0.074	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.525	0.215	1
Perfluorotetradecanoic Acid (PFTA)	0.057	J	ng/g	0.525	0.057	1
PFOA/PFOS, Total	ND		ng/g	0.262	0.044	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-03 Date Collected: 11/17/21 13:20

Client ID: EPSW06_ -6.5 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	93		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	92		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	152		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	101		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	158		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	98		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	102		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	108		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	77		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	61		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-03
Client ID: EPSW06_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:20
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/02/21 12:15
Analyst: RS
Percent Solids: 91%

Extraction Method: ALPHA 23528
Extraction Date: 11/18/21 13:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.525	0.103	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	85		10-117

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-04
Client ID: DUP05_111721
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 00:00
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/23/21 18:09
Analyst: EK
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 11/22/21 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-04 Date Collected: 11/17/21 00:00

Client ID: DUP05_111721 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	110	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	440	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-04 Date Collected: 11/17/21 00:00

Client ID: DUP05_111721 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	29	8.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	64		10-136
4-Terphenyl-d14	58		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-04
Client ID: DUP05_111721
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 00:00
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/01/21 19:15
Analyst: HT
Percent Solids: 86%

Extraction Method: ALPHA 23528
Extraction Date: 11/18/21 13:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.545	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.545	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.273	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.545	0.057	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.273	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.273	0.066	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.273	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.545	0.196	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.545	0.149	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.273	0.082	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.273	0.142	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.273	0.073	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.545	0.313	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.545	0.220	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.545	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.545	0.167	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.545	0.107	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.545	0.092	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.545	0.076	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.545	0.223	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.545	0.059	1
PFOA/PFOS, Total	ND		ng/g	0.273	0.046	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-04 Date Collected: 11/17/21 00:00

Client ID: DUP05_111721 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	98		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	98		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	104		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	99		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	101		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	108		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**162**	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	100		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	101		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	99		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	166		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	102		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	71		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	104		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	79		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	61		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-05
Client ID: FB05_111721
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:30
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/21/21 13:27
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 11/19/21 01:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-05 Date Collected: 11/17/21 13:30

Client ID: FB05_111721 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	88		41-149

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-05
Client ID: FB05_111721
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:30
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/20/21 21:08
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 11/19/21 01:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-05 Date Collected: 11/17/21 13:30

Client ID: FB05_111721 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	80		10-120
4-Terphenyl-d14	83		41-149

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-05
Client ID: FB05_111721
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:30
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/30/21 06:30
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 11/20/21 08:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	144	32.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	47		15-110

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-05
Client ID: FB05_111721
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:30
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/27/21 02:33
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 11/19/21 07:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.75	0.357	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.75	0.346	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.75	0.208	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.75	0.287	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.75	0.197	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.75	0.329	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.75	0.206	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.75	1.16	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.75	0.602	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.75	0.273	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.75	0.441	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.75	0.266	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.75	1.06	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.75	0.567	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.75	0.227	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.75	0.857	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.75	0.507	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.75	0.703	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.75	0.325	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.75	0.286	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.75	0.217	1
PFOA/PFOS, Total	ND		ng/l	1.75	0.206	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-05 Date Collected: 11/17/21 13:30

Client ID: FB05_111721 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	103		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	99		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	112		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	106		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	106		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	113		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	103		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**157**	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	106		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	112		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	102		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	158		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	103		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	33		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	107		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	79		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	69		22-136

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/01/21 12:02
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 11/18/21 13:11

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-04 Batch: WG1573087-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/01/21 12:02
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 11/18/21 13:11

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-04 Batch: WG1573087-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	89		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	108		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	145		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	161		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	96		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	105		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**6**	Q	10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	105		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	80		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	60		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/02/21 11:46
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 11/18/21 13:11

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-04 Batch: WG1573087-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	110		10-117

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/18/21 23:26
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 11/18/21 11:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03 Batch: WG1573099-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.
Hexachlorobenzene	ND		ug/kg	100	19.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	170	16.
1,2-Dichlorobenzene	ND		ug/kg	170	30.
1,3-Dichlorobenzene	ND		ug/kg	170	29.
1,4-Dichlorobenzene	ND		ug/kg	170	29.
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.
2,4-Dinitrotoluene	ND		ug/kg	170	33.
2,6-Dinitrotoluene	ND		ug/kg	170	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	170	24.
Hexachlorocyclopentadiene	ND		ug/kg	480	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	170	20.
Nitrobenzene	ND		ug/kg	150	25.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.
Butyl benzyl phthalate	ND		ug/kg	170	42.
Di-n-butylphthalate	ND		ug/kg	170	32.
Di-n-octylphthalate	ND		ug/kg	170	56.
Diethyl phthalate	ND		ug/kg	170	15.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/18/21 23:26
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 11/18/21 11:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03 Batch: WG1573099-1					
Dimethyl phthalate	ND		ug/kg	170	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	27.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	39.
4-Chloroaniline	ND		ug/kg	170	30.
2-Nitroaniline	ND		ug/kg	170	32.
3-Nitroaniline	ND		ug/kg	170	31.
4-Nitroaniline	ND		ug/kg	170	69.
Dibenzofuran	ND		ug/kg	170	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.
Acetophenone	ND		ug/kg	170	20.
2,4,6-Trichlorophenol	ND		ug/kg	100	32.
p-Chloro-m-cresol	ND		ug/kg	170	25.
2-Chlorophenol	ND		ug/kg	170	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	170	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/18/21 23:26
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 11/18/21 11:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03 Batch: WG1573099-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	78.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	37.
Phenol	ND		ug/kg	170	25.
2-Methylphenol	ND		ug/kg	170	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	170	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	170	51.
Carbazole	ND		ug/kg	170	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	77		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/21/21 08:45
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 11/18/21 21:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1573312-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/21/21 08:45
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 11/18/21 21:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1573312-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/21/21 08:45
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 11/18/21 21:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1573312-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	63		10-120
4-Terphenyl-d14	95		41-149

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 11/20/21 18:53
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 11/18/21 21:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 05 Batch: WG1573313-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	0.03	J	ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	0.03	J	ug/l	0.10	0.01
Benzo(k)fluoranthene	0.03	J	ug/l	0.10	0.01
Chrysene	0.02	J	ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	0.03	J	ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	0.03	J	ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	0.04	J	ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 11/20/21 18:53
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 11/18/21 21:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 05 Batch: WG1573313-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	56		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	76		10-120
4-Terphenyl-d14	89		41-149

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/26/21 19:55
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 11/19/21 07:29

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 05 Batch: WG1573434-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/26/21 19:55
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 11/19/21 07:29

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 05 Batch: WG1573434-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	106		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	106		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	113		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	107		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	107		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	114		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	106		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**160**	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	109		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	110		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	105		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	160		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	103		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	108		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	45		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	120		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	86		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	75		22-136

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/30/21 12:35
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 11/19/21 07:29

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 05 Batch: WG1573434-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	85		10-112

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 11/30/21 02:20
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 11/20/21 08:59

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 05 Batch: WG1573934-1					
1,4-Dioxane	ND		ng/l	150	33.9

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	48		15-110

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/21/21 21:33
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 11/21/21 08:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,04 Batch: WG1574113-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/21/21 21:33
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 11/21/21 08:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,04 Batch: WG1574113-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/21/21 21:33
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 11/21/21 08:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,04 Batch: WG1574113-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	51		10-136
4-Terphenyl-d14	67		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 Batch: WG1573087-2								
Perfluorobutanoic Acid (PFBA)	101		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	100		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	96		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	101		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	100		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	110		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	104		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	120		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	94		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	96		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	110		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	100		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	114		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	114		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	96		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	90		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	94		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	108		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	101		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	130		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	101		-		69-133	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 Batch: WG1573087-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	93				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	93				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**157**	Q			20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	96				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	152				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	103				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	102				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**7**	Q			10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	106				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	82				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	63				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 Batch: WG1573087-2								
Perfluorooctanesulfonamide (FOSA)	115		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	97				10-117

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG1573099-2 WG1573099-3								
Acenaphthene	59		59		31-137	0		50
1,2,4-Trichlorobenzene	54		50		38-107	8		50
Hexachlorobenzene	62		55		40-140	12		50
Bis(2-chloroethyl)ether	59		56		40-140	5		50
2-Chloronaphthalene	60		54		40-140	11		50
1,2-Dichlorobenzene	51		51		40-140	0		50
1,3-Dichlorobenzene	53		51		40-140	4		50
1,4-Dichlorobenzene	55		50		28-104	10		50
3,3'-Dichlorobenzidine	50		44		40-140	13		50
2,4-Dinitrotoluene	61		55		40-132	10		50
2,6-Dinitrotoluene	56		52		40-140	7		50
Fluoranthene	58		55		40-140	5		50
4-Chlorophenyl phenyl ether	60		55		40-140	9		50
4-Bromophenyl phenyl ether	64		58		40-140	10		50
Bis(2-chloroisopropyl)ether	82		76		40-140	8		50
Bis(2-chloroethoxy)methane	56		53		40-117	6		50
Hexachlorobutadiene	62		54		40-140	14		50
Hexachlorocyclopentadiene	46		**38**	Q	40-140	19		50
Hexachloroethane	54		52		40-140	4		50
Isophorone	62		61		40-140	2		50
Naphthalene	57		52		40-140	9		50
Nitrobenzene	58		59		40-140	2		50
NDPA/DPA	61		53		36-157	14		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG1573099-2 WG1573099-3								
n-Nitrosodi-n-propylamine	64		62		32-121	3		50
Bis(2-ethylhexyl)phthalate	69		53		40-140	26		50
Butyl benzyl phthalate	56		51		40-140	9		50
Di-n-butylphthalate	59		54		40-140	9		50
Di-n-octylphthalate	70		51		40-140	31		50
Diethyl phthalate	58		52		40-140	11		50
Dimethyl phthalate	58		51		40-140	13		50
Benzo(a)anthracene	57		53		40-140	7		50
Benzo(a)pyrene	67		50		40-140	29		50
Benzo(b)fluoranthene	64		47		40-140	31		50
Benzo(k)fluoranthene	70		53		40-140	28		50
Chrysene	70		56		40-140	22		50
Acenaphthylene	55		50		40-140	10		50
Anthracene	66		56		40-140	16		50
Benzo(ghi)perylene	58		57		40-140	2		50
Fluorene	61		53		40-140	14		50
Phenanthrene	65		56		40-140	15		50
Dibenzo(a,h)anthracene	58		58		40-140	0		50
Indeno(1,2,3-cd)pyrene	64		59		40-140	8		50
Pyrene	66		54		35-142	20		50
Biphenyl	60		54		37-127	11		50
4-Chloroaniline	83		70		40-140	17		50
2-Nitroaniline	59		51		47-134	15		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG1573099-2 WG1573099-3								
3-Nitroaniline	50		47		26-129	6		50
4-Nitroaniline	65		54		41-125	18		50
Dibenzofuran	58		53		40-140	9		50
2-Methylnaphthalene	59		59		40-140	0		50
1,2,4,5-Tetrachlorobenzene	67		59		40-117	13		50
Acetophenone	60		58		14-144	3		50
2,4,6-Trichlorophenol	63		58		30-130	8		50
p-Chloro-m-cresol	68		66		26-103	3		50
2-Chlorophenol	57		53		25-102	7		50
2,4-Dichlorophenol	63		56		30-130	12		50
2,4-Dimethylphenol	59		55		30-130	7		50
2-Nitrophenol	54		50		30-130	8		50
4-Nitrophenol	68		64		11-114	6		50
2,4-Dinitrophenol	32		34		4-130	6		50
4,6-Dinitro-o-cresol	62		50		10-130	21		50
Pentachlorophenol	55		53		17-109	4		50
Phenol	58		55		26-90	5		50
2-Methylphenol	64		58		30-130.	10		50
3-Methylphenol/4-Methylphenol	61		64		30-130	5		50
2,4,5-Trichlorophenol	64		57		30-130	12		50
Benzoic Acid	**3**	Q	**2**	Q	10-110	27		50
Benzyl Alcohol	62		64		40-140	3		50
Carbazole	60		54		54-128	11		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG1573099-2 WG1573099-3								
1,4-Dioxane	**38**	Q	**35**	Q	40-140	8		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	57		56		25-120
Phenol-d6	65		53		10-120
Nitrobenzene-d5	59		59		23-120
2-Fluorobiphenyl	60		55		30-120
2,4,6-Tribromophenol	66		52		10-136
4-Terphenyl-d14	60		49		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1573312-2 WG1573312-3								
Acenaphthene	66		78		37-111	17		30
1,2,4-Trichlorobenzene	64		72		39-98	12		30
Hexachlorobenzene	81		92		40-140	13		30
Bis(2-chloroethyl)ether	56		66		40-140	16		30
2-Chloronaphthalene	65		80		40-140	21		30
1,2-Dichlorobenzene	60		65		40-140	8		30
1,3-Dichlorobenzene	54		62		40-140	14		30
1,4-Dichlorobenzene	58		64		36-97	10		30
3,3'-Dichlorobenzidine	55		62		40-140	12		30
2,4-Dinitrotoluene	72		82		48-143	13		30
2,6-Dinitrotoluene	70		85		40-140	19		30
Fluoranthene	78		88		40-140	12		30
4-Chlorophenyl phenyl ether	78		85		40-140	9		30
4-Bromophenyl phenyl ether	81		96		40-140	17		30
Bis(2-chloroisopropyl)ether	45		53		40-140	16		30
Bis(2-chloroethoxy)methane	58		65		40-140	11		30
Hexachlorobutadiene	71		89		40-140	23		30
Hexachlorocyclopentadiene	56		68		40-140	19		30
Hexachloroethane	55		60		40-140	9		30
Isophorone	58		67		40-140	14		30
Naphthalene	62		71		40-140	14		30
Nitrobenzene	56		67		40-140	18		30
NDPA/DPA	73		84		40-140	14		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1573312-2 WG1573312-3								
n-Nitrosodi-n-propylamine	64		67		29-132	5		30
Bis(2-ethylhexyl)phthalate	67		81		40-140	19		30
Butyl benzyl phthalate	71		83		40-140	16		30
Di-n-butylphthalate	71		83		40-140	16		30
Di-n-octylphthalate	71		81		40-140	13		30
Diethyl phthalate	74		85		40-140	14		30
Dimethyl phthalate	71		84		40-140	17		30
Benzo(a)anthracene	75		88		40-140	16		30
Benzo(a)pyrene	79		88		40-140	11		30
Benzo(b)fluoranthene	76		88		40-140	15		30
Benzo(k)fluoranthene	79		89		40-140	12		30
Chrysene	72		85		40-140	17		30
Acenaphthylene	66		80		45-123	19		30
Anthracene	70		81		40-140	15		30
Benzo(ghi)perylene	79		86		40-140	8		30
Fluorene	72		82		40-140	13		30
Phenanthrene	68		84		40-140	21		30
Dibenzo(a,h)anthracene	81		88		40-140	8		30
Indeno(1,2,3-cd)pyrene	80		88		40-140	10		30
Pyrene	75		88		26-127	16		30
Biphenyl	70		82		40-140	16		30
4-Chloroaniline	43		46		40-140	7		30
2-Nitroaniline	71		81		52-143	13		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1573312-2 WG1573312-3								
3-Nitroaniline	57		69		25-145	19		30
4-Nitroaniline	65		76		51-143	16		30
Dibenzofuran	70		82		40-140	16		30
2-Methylnaphthalene	64		77		40-140	18		30
1,2,4,5-Tetrachlorobenzene	81		92		2-134	13		30
Acetophenone	60		67		39-129	11		30
2,4,6-Trichlorophenol	72		90		30-130	22		30
p-Chloro-m-cresol	77		88		23-97	13		30
2-Chlorophenol	62		71		27-123	14		30
2,4-Dichlorophenol	73		80		30-130	9		30
2,4-Dimethylphenol	55		64		30-130	15		30
2-Nitrophenol	62		70		30-130	12		30
4-Nitrophenol	62		67		10-80	8		30
2,4-Dinitrophenol	61		61		20-130	0		30
4,6-Dinitro-o-cresol	67		75		20-164	11		30
Pentachlorophenol	68		71		9-103	4		30
Phenol	49		57		12-110	15		30
2-Methylphenol	61		70		30-130	14		30
3-Methylphenol/4-Methylphenol	63		72		30-130	13		30
2,4,5-Trichlorophenol	78		91		30-130	15		30
Benzoic Acid	37		25		10-164	**39**	Q	30
Benzyl Alcohol	59		69		26-116	16		30
Carbazole	75		88		55-144	16		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1573312-2 WG1573312-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	56		64		21-120
Phenol-d6	48		53		10-120
Nitrobenzene-d5	58		63		23-120
2-Fluorobiphenyl	65		77		15-120
2,4,6-Tribromophenol	80		92		10-120
4-Terphenyl-d14	81		96		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

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Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 05 Batch: WG1573313-2 WG1573313-3								
Acenaphthene	66		77		40-140	15		40
2-Chloronaphthalene	65		74		40-140	13		40
Fluoranthene	76		85		40-140	11		40
Hexachlorobutadiene	60		68		40-140	13		40
Naphthalene	65		74		40-140	13		40
Benzo(a)anthracene	74		83		40-140	11		40
Benzo(a)pyrene	77		88		40-140	13		40
Benzo(b)fluoranthene	82		96		40-140	16		40
Benzo(k)fluoranthene	77		84		40-140	9		40
Chrysene	71		78		40-140	9		40
Acenaphthylene	68		77		40-140	12		40
Anthracene	72		81		40-140	12		40
Benzo(ghi)perylene	74		84		40-140	13		40
Fluorene	69		80		40-140	15		40
Phenanthrene	71		81		40-140	13		40
Dibenzo(a,h)anthracene	83		93		40-140	11		40
Indeno(1,2,3-cd)pyrene	88		100		40-140	13		40
Pyrene	75		84		40-140	11		40
2-Methylnaphthalene	72		82		40-140	13		40
Pentachlorophenol	64		74		40-140	14		40
Hexachlorobenzene	69		80		40-140	15		40
Hexachloroethane	56		63		40-140	12		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 05 Batch: WG1573313-2 WG1573313-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	61		70		21-120
Phenol-d6	54		61		10-120
Nitrobenzene-d5	62		69		23-120
2-Fluorobiphenyl	69		78		15-120
2,4,6-Tribromophenol	71		79		10-120
4-Terphenyl-d14	78		86		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 Batch: WG1573434-2								
Perfluorobutanoic Acid (PFBA)	101		-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	100		-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	97		-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	100		-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	102		-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	113		-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	105		-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	125		-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	104		-		61-179	-		30
Perfluorononanoic Acid (PFNA)	98		-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	114		-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	104		-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	108		-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	116		-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	104		-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	101		-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	101		-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	108		-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	99		-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	126		-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	106		-		59-182	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 Batch: WG1573434-2

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	103				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100				62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	113				70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	106				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	106				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	112				71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	102				62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**160**	Q			14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	106				59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108				69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101				62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**168**	Q			10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	106				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	98				55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	35				10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	113				27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	88				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	72				22-136

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

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Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 Batch: WG1573434-2								
Perfluorooctanesulfonamide (FOSA)	111		-		46-170	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	68				10-112

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 05 Batch: WG1573934-2 WG1573934-3								
1,4-Dioxane	108		108		40-140	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	48		50		15-110

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1574113-2 WG1574113-3								
Acenaphthene	69		61		31-137	12		50
1,2,4-Trichlorobenzene	70		62		38-107	12		50
Hexachlorobenzene	72		67		40-140	7		50
Bis(2-chloroethyl)ether	69		59		40-140	16		50
2-Chloronaphthalene	75		67		40-140	11		50
1,2-Dichlorobenzene	71		61		40-140	15		50
1,3-Dichlorobenzene	71		61		40-140	15		50
1,4-Dichlorobenzene	71		60		28-104	17		50
3,3'-Dichlorobenzidine	67		56		40-140	18		50
2,4-Dinitrotoluene	78		69		40-132	12		50
2,6-Dinitrotoluene	86		77		40-140	11		50
Fluoranthene	75		70		40-140	7		50
4-Chlorophenyl phenyl ether	73		66		40-140	10		50
4-Bromophenyl phenyl ether	76		69		40-140	10		50
Bis(2-chloroisopropyl)ether	90		76		40-140	17		50
Bis(2-chloroethoxy)methane	70		61		40-117	14		50
Hexachlorobutadiene	75		67		40-140	11		50
Hexachlorocyclopentadiene	67		60		40-140	11		50
Hexachloroethane	70		60		40-140	15		50
Isophorone	70		60		40-140	15		50
Naphthalene	75		66		40-140	13		50
Nitrobenzene	73		64		40-140	13		50
NDPA/DPA	74		66		36-157	11		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1574113-2 WG1574113-3								
n-Nitrosodi-n-propylamine	73		61		32-121	18		50
Bis(2-ethylhexyl)phthalate	88		78		40-140	12		50
Butyl benzyl phthalate	81		73		40-140	10		50
Di-n-butylphthalate	79		72		40-140	9		50
Di-n-octylphthalate	88		78		40-140	12		50
Diethyl phthalate	74		67		40-140	10		50
Dimethyl phthalate	76		68		40-140	11		50
Benzo(a)anthracene	79		70		40-140	12		50
Benzo(a)pyrene	84		74		40-140	13		50
Benzo(b)fluoranthene	82		71		40-140	14		50
Benzo(k)fluoranthene	80		71		40-140	12		50
Chrysene	77		69		40-140	11		50
Acenaphthylene	78		70		40-140	11		50
Anthracene	74		68		40-140	8		50
Benzo(ghi)perylene	85		75		40-140	13		50
Fluorene	75		67		40-140	11		50
Phenanthrene	73		66		40-140	10		50
Dibenzo(a,h)anthracene	83		74		40-140	11		50
Indeno(1,2,3-cd)pyrene	86		76		40-140	12		50
Pyrene	74		67		35-142	10		50
Biphenyl	73		66		37-127	10		50
4-Chloroaniline	54		42		40-140	25		50
2-Nitroaniline	89		81		47-134	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1574113-2 WG1574113-3								
3-Nitroaniline	71		59		26-129	18		50
4-Nitroaniline	73		66		41-125	10		50
Dibenzofuran	74		65		40-140	13		50
2-Methylnaphthalene	77		68		40-140	12		50
1,2,4,5-Tetrachlorobenzene	74		66		40-117	11		50
Acetophenone	67		58		14-144	14		50
2,4,6-Trichlorophenol	82		74		30-130	10		50
p-Chloro-m-cresol	83		76		26-103	9		50
2-Chlorophenol	79		69		25-102	14		50
2,4-Dichlorophenol	83		72		30-130	14		50
2,4-Dimethylphenol	76		65		30-130	16		50
2-Nitrophenol	88		76		30-130	15		50
4-Nitrophenol	77		71		11-114	8		50
2,4-Dinitrophenol	60		65		4-130	8		50
4,6-Dinitro-o-cresol	83		79		10-130	5		50
Pentachlorophenol	61		61		17-109	0		50
Phenol	76		66		26-90	14		50
2-Methylphenol	78		66		30-130.	17		50
3-Methylphenol/4-Methylphenol	76		66		30-130	14		50
2,4,5-Trichlorophenol	86		74		30-130	15		50
Benzoic Acid	**5**	Q	12		10-110	**86**	Q	50
Benzyl Alcohol	75		64		40-140	16		50
Carbazole	74		67		54-128	10		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1574113-2 WG1574113-3								
1,4-Dioxane	49		41		40-140	18		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	83		71		25-120
Phenol-d6	78		67		10-120
Nitrobenzene-d5	74		65		23-120
2-Fluorobiphenyl	73		66		30-120
2,4,6-Tribromophenol	71		66		10-136
4-Terphenyl-d14	70		66		18-120

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1573087-5 QC Sample: L2163488-01 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	4.91	5.14	105		-	-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	ND	4.91	5.29	108		-	-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.36	4.49	103		-	-		72-128	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	4.6	5.18	113		-	-		62-145	-		30
Perfluorohexanoic Acid (PFHxA)	ND	4.91	5.11	104		-	-		70-132	-		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	4.62	5.05	109		-	-		73-123	-		30
Perfluoroheptanoic Acid (PFHpA)	0.051J	4.91	5.21	105		-	-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	0.106J	4.49	5.20	113		-	-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	0.522	4.91	5.78	107		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.67	5.78	124		-	-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.67	4.85	104		-	-		70-132	-		30
Perfluorononanoic Acid (PFNA)	ND	4.91	5.05	103		-	-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	1.01	4.56	5.98	109		-	-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	ND	4.91	5.16	105		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.71	5.63	119		-	-		65-137	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	4.72	4.94	105		-	-		69-125	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	4.91	5.90	120		-	-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	4.91	4.57	93		-	-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	4.73	4.40	93		-	-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	ND	4.91	4.80	98		-	-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	4.91	5.20	106		-	-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	ND	4.91	5.22	106		-	-		69-135	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1573087-5 QC Sample: L2163488-01 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	4.91	6.77	138		-	-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	0.056J	4.91	5.29	107		-	-		69-133	-		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	156				19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	163				14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**163**	Q			20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	96				34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	82				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101				61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	96				75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	94				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	103				78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	77				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	58				24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	93				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	91				58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	69				10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99				79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92				75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	98				72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99				74-139

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1573434-3 QC Sample: L2162627-08 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	39.8	40.0	101		-	-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	ND	39.8	39.8	100		-	-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	35.3	34.7	98		-	-		65-157	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	37.2	40.8	110		-	-		37-219	-		30
Perfluorohexanoic Acid (PFHxA)	ND	39.8	39.8	100		-	-		69-168	-		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	37.4	39.8	106		-	-		52-156	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	39.8	40.8	103		-	-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	36.4	39.7	109		-	-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	ND	39.8	41.0	103		-	-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	37.9	44.7	118		-	-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	37.9	38.5	102		-	-		61-179	-		30
Perfluorononanoic Acid (PFNA)	ND	39.8	39.6	100		-	-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	ND	36.9	41.6	113		-	-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	ND	39.8	41.6	105		-	-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	38.2	42.7	112		-	-		56-173	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	38.2	36.2	95		-	-		48-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	39.8	42.5F	107		-	-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	39.8	39.6	100		-	-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	38.3	31.1	81		-	-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	ND	39.8	38.4	97		-	-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	39.8	43.6	110		-	-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	ND	39.8	43.3	109		-	-		67-153	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1573434-3 QC Sample: L2162627-08 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	39.8	59.0	148		-	-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	39.8	41.3	104		-	-		59-182	-		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**308**	Q			10-162
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	**176**	Q			12-142
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**166**	Q			14-147
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	74				27-126
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	112				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	78				55-137
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98				62-124
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	102				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	102				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	109				71-134
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	70				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	66				22-136
Perfluoro[13C4]Butanoic Acid (MPFBA)	101				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	98				62-163
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	20				10-112
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106				69-131
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100				62-129
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	106				59-139
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	109				70-131

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1573087-6 QC Sample: L2163488-04 Client ID: DUP Sample						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/g	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/g	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/g	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/g	NC		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ng/g	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/g	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/g	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/g	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/g	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/g	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/g	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/g	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/g	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/g	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/g	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/g	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1573087-6 QC Sample: L2163488-04 Client ID: DUP Sample						
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/g	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/g	NC		30
Perfluorotetradecanoic Acid (PFTA)	0.058JF	0.058J	ng/g	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	65		79		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	67		81		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	92		97		74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	145		154		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	72		83		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	77		87		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	92		100		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	77		86		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	131		147		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	83		93		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	89		99		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	82		92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	124		140		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	58		74		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	87		96		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	59		83		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	66		76		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	32		52		24-159

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1573434-4 QC Sample: L2162848-31 Client ID: DUP Sample						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/l	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/l	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/l	NC		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ng/l	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/l	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/l	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/l	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/l	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/l	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1573434-4 QC Sample: L2162848-31 Client ID: DUP Sample						
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/l	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/l	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	104		104		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100		99		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	108		113		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	**161**	Q	**177**	Q	12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	105		105		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	105		104		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	109		114		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		101		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**154**	Q	**151**	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	106		105		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		109		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101		98		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**201**	Q	**169**	Q	10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	96		89		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103		94		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	26		36		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	116		116		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	78		72		48-131

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1573434-4 QC Sample: L2162848-31 Client ID: DUP Sample						

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	55		60		22-136

PCBS

Project Name: 1607 SURF AVENUE
Lab Number: L2163526
Project Number: 170599501
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-01
Client ID: EP19_1
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:00
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/24/21 15:26
Analyst: JWL
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 11/24/21 05:37
Cleanup Method: EPA 3665A
Cleanup Date: 11/24/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/24/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.3	3.31	1	A
Aroclor 1221	ND		ug/kg	37.3	3.74	1	A
Aroclor 1232	ND		ug/kg	37.3	7.91	1	A
Aroclor 1242	ND		ug/kg	37.3	5.03	1	A
Aroclor 1248	ND		ug/kg	37.3	5.60	1	A
Aroclor 1254	ND		ug/kg	37.3	4.08	1	A
Aroclor 1260	ND		ug/kg	37.3	6.89	1	A
Aroclor 1262	ND		ug/kg	37.3	4.74	1	A
Aroclor 1268	ND		ug/kg	37.3	3.86	1	A
PCBs, Total	ND		ug/kg	37.3	3.31	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-02
Client ID: EPSW01_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:10
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/19/21 08:59
Analyst: CW
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 11/18/21 19:04
Cleanup Method: EPA 3665A
Cleanup Date: 11/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	43.8	3.89	1	A
Aroclor 1221	ND		ug/kg	43.8	4.38	1	A
Aroclor 1232	ND		ug/kg	43.8	9.28	1	A
Aroclor 1242	ND		ug/kg	43.8	5.90	1	A
Aroclor 1248	ND		ug/kg	43.8	6.56	1	A
Aroclor 1254	ND		ug/kg	43.8	4.79	1	A
Aroclor 1260	ND		ug/kg	43.8	8.09	1	A
Aroclor 1262	ND		ug/kg	43.8	5.56	1	A
Aroclor 1268	ND		ug/kg	43.8	4.53	1	A
PCBs, Total	ND		ug/kg	43.8	3.89	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-03
Client ID: EPSW06_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:20
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/19/21 09:07
Analyst: CW
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 11/18/21 19:04
Cleanup Method: EPA 3665A
Cleanup Date: 11/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.3	3.14	1	A
Aroclor 1221	ND		ug/kg	35.3	3.54	1	A
Aroclor 1232	ND		ug/kg	35.3	7.49	1	A
Aroclor 1242	ND		ug/kg	35.3	4.76	1	A
Aroclor 1248	ND		ug/kg	35.3	5.30	1	A
Aroclor 1254	5.92	J	ug/kg	35.3	3.86	1	A
Aroclor 1260	ND		ug/kg	35.3	6.53	1	A
Aroclor 1262	ND		ug/kg	35.3	4.49	1	A
Aroclor 1268	ND		ug/kg	35.3	3.66	1	A
PCBs, Total	5.92	J	ug/kg	35.3	3.14	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-04
Client ID: DUP05_111721
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 00:00
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/24/21 15:33
Analyst: JWL
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 11/24/21 05:37
Cleanup Method: EPA 3665A
Cleanup Date: 11/24/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/24/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.5	3.42	1	A
Aroclor 1221	ND		ug/kg	38.5	3.86	1	A
Aroclor 1232	ND		ug/kg	38.5	8.16	1	A
Aroclor 1242	ND		ug/kg	38.5	5.19	1	A
Aroclor 1248	ND		ug/kg	38.5	5.78	1	A
Aroclor 1254	ND		ug/kg	38.5	4.21	1	A
Aroclor 1260	ND		ug/kg	38.5	7.12	1	A
Aroclor 1262	ND		ug/kg	38.5	4.89	1	A
Aroclor 1268	ND		ug/kg	38.5	3.99	1	A
PCBs, Total	ND		ug/kg	38.5	3.42	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-05
Client ID: FB05_111721
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:30
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 11/19/21 22:23
Analyst: AD

Extraction Method: EPA 3510C
Extraction Date: 11/18/21 22:53
Cleanup Method: EPA 3665A
Cleanup Date: 11/19/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	40		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	46		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 11/18/21 19:20
Analyst: JM

Extraction Method: EPA 3510C
Extraction Date: 11/18/21 08:56
Cleanup Method: EPA 3665A
Cleanup Date: 11/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 05 Batch: WG1573014-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 11/19/21 08:38
Analyst: CW

Extraction Method: EPA 3546
Extraction Date: 11/18/21 12:20
Cleanup Method: EPA 3665A
Cleanup Date: 11/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02-03 Batch: WG1573133-1						
Aroclor 1016	ND		ug/kg	33.0	2.93	A
Aroclor 1221	ND		ug/kg	33.0	3.31	A
Aroclor 1232	ND		ug/kg	33.0	7.00	A
Aroclor 1242	ND		ug/kg	33.0	4.45	A
Aroclor 1248	ND		ug/kg	33.0	4.95	A
Aroclor 1254	ND		ug/kg	33.0	3.61	A
Aroclor 1260	ND		ug/kg	33.0	6.10	A
Aroclor 1262	ND		ug/kg	33.0	4.19	A
Aroclor 1268	ND		ug/kg	33.0	3.42	A
PCBs, Total	ND		ug/kg	33.0	2.93	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 11/24/21 15:04
Analyst: JWL

Extraction Method: EPA 3546
Extraction Date: 11/24/21 05:12
Cleanup Method: EPA 3665A
Cleanup Date: 11/24/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/24/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,04 Batch: WG1575385-1						
Aroclor 1016	ND		ug/kg	32.0	2.84	A
Aroclor 1221	ND		ug/kg	32.0	3.20	A
Aroclor 1232	ND		ug/kg	32.0	6.78	A
Aroclor 1242	ND		ug/kg	32.0	4.31	A
Aroclor 1248	ND		ug/kg	32.0	4.80	A
Aroclor 1254	ND		ug/kg	32.0	3.50	A
Aroclor 1260	ND		ug/kg	32.0	5.91	A
Aroclor 1262	ND		ug/kg	32.0	4.06	A
Aroclor 1268	ND		ug/kg	32.0	3.31	A
PCBs, Total	ND		ug/kg	32.0	2.84	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	104		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	95		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 05 Batch: WG1573014-2 WG1573014-3									
Aroclor 1016	51		62		40-140	20		50	A
Aroclor 1260	50		61		40-140	20		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		53		30-150	A
Decachlorobiphenyl	46		54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	46		57		30-150	B
Decachlorobiphenyl	49		59		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02-03 Batch: WG1573133-2 WG1573133-3									
Aroclor 1016	84		77		40-140	9		50	A
Aroclor 1260	84		79		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		72		30-150	A
Decachlorobiphenyl	82		78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		62		30-150	B
Decachlorobiphenyl	63		59		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,04 Batch: WG1575385-2 WG1575385-3									
Aroclor 1016	95		97		40-140	2		50	A
Aroclor 1260	116		117		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		75		30-150	A
Decachlorobiphenyl	111		118		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		71		30-150	B
Decachlorobiphenyl	96		96		30-150	B

PESTICIDES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-01
Client ID: EP19_1
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:00
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/24/21 15:06
Analyst: AR
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 11/24/21 05:29
Cleanup Method: EPA 3620B
Cleanup Date: 11/24/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.83	0.358	1	A
Lindane	ND		ug/kg	0.762	0.341	1	A
Alpha-BHC	ND		ug/kg	0.762	0.216	1	A
Beta-BHC	ND		ug/kg	1.83	0.694	1	A
Heptachlor	ND		ug/kg	0.915	0.410	1	A
Aldrin	ND		ug/kg	1.83	0.644	1	A
Heptachlor epoxide	ND		ug/kg	3.43	1.03	1	A
Endrin	ND		ug/kg	0.762	0.312	1	A
Endrin aldehyde	ND		ug/kg	2.29	0.800	1	A
Endrin ketone	ND		ug/kg	1.83	0.471	1	A
Dieldrin	ND		ug/kg	1.14	0.572	1	A
4,4'-DDE	ND		ug/kg	1.83	0.423	1	A
4,4'-DDD	ND		ug/kg	1.83	0.652	1	A
4,4'-DDT	ND		ug/kg	3.43	1.47	1	A
Endosulfan I	ND		ug/kg	1.83	0.432	1	A
Endosulfan II	ND		ug/kg	1.83	0.611	1	A
Endosulfan sulfate	ND		ug/kg	0.762	0.363	1	A
Methoxychlor	ND		ug/kg	3.43	1.07	1	A
Toxaphene	ND		ug/kg	34.3	9.60	1	A
cis-Chlordane	ND		ug/kg	2.29	0.637	1	A
trans-Chlordane	ND		ug/kg	2.29	0.604	1	A
Chlordane	ND		ug/kg	15.2	6.06	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-01 Date Collected: 11/17/21 13:00

Client ID: EP19_1 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	102		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	112		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2163526
Project Number: 170599501
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-01
Client ID: EP19_1
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:00
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/19/21 12:38
Analyst: AR
Percent Solids: 84%
Methylation Date: 11/19/21 06:44

Extraction Method: EPA 8151A
Extraction Date: 11/18/21 12:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	195	12.3	1	A
2,4,5-T	ND		ug/kg	195	6.05	1	A
2,4,5-TP (Silvex)	ND		ug/kg	195	5.19	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	80		30-150	A
DCAA	67		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-02
Client ID: EPSW01_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:10
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/19/21 05:04
Analyst: EJL
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 11/18/21 20:43
Cleanup Method: EPA 3620B
Cleanup Date: 11/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.10	0.410	1	A
Lindane	ND		ug/kg	0.873	0.390	1	A
Alpha-BHC	ND		ug/kg	0.873	0.248	1	A
Beta-BHC	ND		ug/kg	2.10	0.794	1	A
Heptachlor	ND		ug/kg	1.05	0.470	1	A
Aldrin	ND		ug/kg	2.10	0.738	1	A
Heptachlor epoxide	ND		ug/kg	3.93	1.18	1	A
Endrin	ND		ug/kg	0.873	0.358	1	A
Endrin aldehyde	ND		ug/kg	2.62	0.917	1	A
Endrin ketone	ND		ug/kg	2.10	0.540	1	A
Dieldrin	ND		ug/kg	1.31	0.655	1	A
4,4'-DDE	ND		ug/kg	2.10	0.484	1	A
4,4'-DDD	ND		ug/kg	2.10	0.747	1	A
4,4'-DDT	ND		ug/kg	3.93	1.68	1	A
Endosulfan I	ND		ug/kg	2.10	0.495	1	A
Endosulfan II	ND		ug/kg	2.10	0.700	1	A
Endosulfan sulfate	ND		ug/kg	0.873	0.416	1	A
Methoxychlor	ND		ug/kg	3.93	1.22	1	A
Toxaphene	ND		ug/kg	39.3	11.0	1	A
cis-Chlordane	ND		ug/kg	2.62	0.730	1	A
trans-Chlordane	ND		ug/kg	2.62	0.691	1	A
Chlordane	ND		ug/kg	17.5	6.94	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-02 Date Collected: 11/17/21 13:10

Client ID: EPSW01_ -6.5 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	100		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2163526
Project Number: 170599501
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-02
Client ID: EPSW01_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:10
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/19/21 12:56
Analyst: AR
Percent Solids: 76%
Methylation Date: 11/19/21 06:44

Extraction Method: EPA 8151A
Extraction Date: 11/18/21 12:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	216	13.6	1	A
2,4,5-T	ND		ug/kg	216	6.68	1	A
2,4,5-TP (Silvex)	ND		ug/kg	216	5.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	67		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-03
Client ID: EPSW06_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:20
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/19/21 05:15
Analyst: EJL
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 11/18/21 20:43
Cleanup Method: EPA 3620B
Cleanup Date: 11/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.72	0.338	1	A
Lindane	ND		ug/kg	0.718	0.321	1	A
Alpha-BHC	ND		ug/kg	0.718	0.204	1	A
Beta-BHC	ND		ug/kg	1.72	0.654	1	A
Heptachlor	ND		ug/kg	0.862	0.386	1	A
Aldrin	ND		ug/kg	1.72	0.607	1	A
Heptachlor epoxide	ND		ug/kg	3.23	0.970	1	A
Endrin	ND		ug/kg	0.718	0.294	1	A
Endrin aldehyde	ND		ug/kg	2.15	0.754	1	A
Endrin ketone	ND		ug/kg	1.72	0.444	1	A
Dieldrin	ND		ug/kg	1.08	0.539	1	A
4,4'-DDE	3.31	P	ug/kg	1.72	0.399	1	B
4,4'-DDD	5.70		ug/kg	1.72	0.615	1	B
4,4'-DDT	4.83		ug/kg	3.23	1.39	1	B
Endosulfan I	ND		ug/kg	1.72	0.407	1	A
Endosulfan II	ND		ug/kg	1.72	0.576	1	A
Endosulfan sulfate	ND		ug/kg	0.718	0.342	1	A
Methoxychlor	ND		ug/kg	3.23	1.00	1	A
Toxaphene	ND		ug/kg	32.3	9.05	1	A
cis-Chlordane	ND		ug/kg	2.15	0.600	1	A
trans-Chlordane	ND		ug/kg	2.15	0.569	1	A
Chlordane	ND		ug/kg	14.4	5.71	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-03 Date Collected: 11/17/21 13:20

Client ID: EPSW06_ -6.5 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	95		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2163526
Project Number: 170599501
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-03
Client ID: EPSW06_ -6.5
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:20
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/19/21 13:15
Analyst: AR
Percent Solids: 91%
Methylation Date: 11/19/21 06:44

Extraction Method: EPA 8151A
Extraction Date: 11/18/21 12:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	179	11.2	1	A
2,4,5-T	ND		ug/kg	179	5.54	1	A
2,4,5-TP (Silvex)	ND		ug/kg	179	4.75	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	80		30-150	A
DCAA	68		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2163526
Project Number: 170599501
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-04
Client ID: DUP05_111721
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 00:00
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/24/21 15:17
Analyst: AR
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 11/24/21 05:29
Cleanup Method: EPA 3620B
Cleanup Date: 11/24/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.80	0.352	1	A
Lindane	ND		ug/kg	0.750	0.335	1	A
Alpha-BHC	ND		ug/kg	0.750	0.213	1	A
Beta-BHC	ND		ug/kg	1.80	0.682	1	A
Heptachlor	ND		ug/kg	0.900	0.403	1	A
Aldrin	ND		ug/kg	1.80	0.634	1	A
Heptachlor epoxide	ND		ug/kg	3.37	1.01	1	A
Endrin	ND		ug/kg	0.750	0.307	1	A
Endrin aldehyde	ND		ug/kg	2.25	0.787	1	A
Endrin ketone	ND		ug/kg	1.80	0.463	1	A
Dieldrin	ND		ug/kg	1.12	0.562	1	A
4,4'-DDE	ND		ug/kg	1.80	0.416	1	A
4,4'-DDD	ND		ug/kg	1.80	0.642	1	A
4,4'-DDT	ND		ug/kg	3.37	1.45	1	A
Endosulfan I	ND		ug/kg	1.80	0.425	1	A
Endosulfan II	ND		ug/kg	1.80	0.601	1	A
Endosulfan sulfate	ND		ug/kg	0.750	0.357	1	A
Methoxychlor	ND		ug/kg	3.37	1.05	1	A
Toxaphene	ND		ug/kg	33.7	9.45	1	A
cis-Chlordane	ND		ug/kg	2.25	0.627	1	A
trans-Chlordane	ND		ug/kg	2.25	0.594	1	A
Chlordane	ND		ug/kg	15.0	5.96	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-04 Date Collected: 11/17/21 00:00

Client ID: DUP05_111721 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	106		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2163526
Project Number: 170599501
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-04
Client ID: DUP05_111721
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 00:00
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/20/21 20:07
Analyst: EJL
Percent Solids: 86%
Methylation Date: 11/19/21 06:44

Extraction Method: EPA 8151A
Extraction Date: 11/18/21 12:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	192	12.1	1	A
2,4,5-T	ND		ug/kg	192	5.95	1	A
2,4,5-TP (Silvex)	ND		ug/kg	192	5.10	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	68		30-150	A
DCAA	57		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-05
Client ID: FB05_111721
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:30
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 11/19/21 15:58
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 11/18/21 22:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-05 Date Collected: 11/17/21 13:30

Client ID: FB05_111721 Date Received: 11/17/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2163526
Project Number: 170599501
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-05
Client ID: FB05_111721
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 13:30
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 11/23/21 09:27
Analyst: AR

Extraction Method: EPA 8151A
Extraction Date: 11/21/21 13:59

Methylation Date: 11/22/21 17:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	81		30-150	A
DCAA	71		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/19/21 16:20
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 11/18/21 09:57

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 05 Batch: WG1573045-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/19/21 16:20
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 11/18/21 09:57

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 05 Batch: WG1573045-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	38		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	41		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 11/19/21 10:48
Analyst: AR

Extraction Method: EPA 8151A
Extraction Date: 11/18/21 09:47

Methylation Date: 11/19/21 06:44

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-04 Batch: WG1573131-1						
2,4-D	ND		ug/kg	164	10.3	A
2,4,5-T	ND		ug/kg	164	5.07	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.35	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	82		30-150	A
DCAA	68		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/19/21 03:59
Analyst: EJL

Extraction Method: EPA 3546
Extraction Date: 11/18/21 20:43
Cleanup Method: EPA 3620B
Cleanup Date: 11/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02-03 Batch: WG1573305-1						
Delta-BHC	ND		ug/kg	1.51	0.295	A
Lindane	ND		ug/kg	0.628	0.281	A
Alpha-BHC	ND		ug/kg	0.628	0.178	A
Beta-BHC	ND		ug/kg	1.51	0.572	A
Heptachlor	ND		ug/kg	0.754	0.338	A
Aldrin	ND		ug/kg	1.51	0.531	A
Heptachlor epoxide	ND		ug/kg	2.83	0.848	A
Endrin	ND		ug/kg	0.628	0.258	A
Endrin aldehyde	ND		ug/kg	1.88	0.660	A
Endrin ketone	ND		ug/kg	1.51	0.388	A
Dieldrin	ND		ug/kg	0.943	0.471	A
4,4'-DDE	ND		ug/kg	1.51	0.349	A
4,4'-DDD	ND		ug/kg	1.51	0.538	A
4,4'-DDT	ND		ug/kg	2.83	1.21	A
Endosulfan I	ND		ug/kg	1.51	0.356	A
Endosulfan II	ND		ug/kg	1.51	0.504	A
Endosulfan sulfate	ND		ug/kg	0.628	0.299	A
Methoxychlor	ND		ug/kg	2.83	0.880	A
Toxaphene	ND		ug/kg	28.3	7.92	A
cis-Chlordane	ND		ug/kg	1.88	0.525	A
trans-Chlordane	ND		ug/kg	1.88	0.498	A
Chlordane	ND		ug/kg	12.6	5.00	A

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/19/21 03:59
Analyst: EJL

Extraction Method: EPA 3546
Extraction Date: 11/18/21 20:43
Cleanup Method: EPA 3620B
Cleanup Date: 11/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02-03 Batch: WG1573305-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	120		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	132		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 11/23/21 07:56
Analyst: AR

Extraction Method: EPA 8151A
Extraction Date: 11/21/21 13:46

Methylation Date: 11/22/21 15:33

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 05 Batch: WG1574192-1						
2,4-D	ND		ug/l	10.0	0.498	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	85		30-150	A
DCAA	75		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/24/21 14:33
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 11/24/21 05:18
Cleanup Method: EPA 3620B
Cleanup Date: 11/24/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,04 Batch: WG1575386-1						
Delta-BHC	ND		ug/kg	1.52	0.298	A
Lindane	ND		ug/kg	0.634	0.284	A
Alpha-BHC	ND		ug/kg	0.634	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.577	A
Heptachlor	ND		ug/kg	0.761	0.341	A
Aldrin	ND		ug/kg	1.52	0.536	A
Heptachlor epoxide	ND		ug/kg	2.86	0.856	A
Endrin	ND		ug/kg	0.634	0.260	A
Endrin aldehyde	ND		ug/kg	1.90	0.666	A
Endrin ketone	ND		ug/kg	1.52	0.392	A
Dieldrin	ND		ug/kg	0.952	0.476	A
4,4'-DDE	ND		ug/kg	1.52	0.352	A
4,4'-DDD	ND		ug/kg	1.52	0.543	A
4,4'-DDT	ND		ug/kg	2.86	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.360	A
Endosulfan II	ND		ug/kg	1.52	0.509	A
Endosulfan sulfate	ND		ug/kg	0.634	0.302	A
Methoxychlor	ND		ug/kg	2.86	0.888	A
Toxaphene	ND		ug/kg	28.6	7.99	A
cis-Chlordane	ND		ug/kg	1.90	0.530	A
trans-Chlordane	ND		ug/kg	1.90	0.502	A
Chlordane	ND		ug/kg	12.7	5.04	A

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/24/21 14:33
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 11/24/21 05:18
Cleanup Method: EPA 3620B
Cleanup Date: 11/24/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,04 Batch: WG1575386-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	103		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	114		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05 Batch: WG1573045-2 WG1573045-3									
Delta-BHC	30		34		30-150	12		20	A
Lindane	47		52		30-150	10		20	A
Alpha-BHC	44		49		30-150	10		20	A
Beta-BHC	53		55		30-150	4		20	A
Heptachlor	54		58		30-150	8		20	A
Aldrin	46		50		30-150	8		20	A
Heptachlor epoxide	49		54		30-150	9		20	A
Endrin	51		57		30-150	11		20	A
Endrin aldehyde	38		46		30-150	19		20	A
Endrin ketone	56		65		30-150	15		20	A
Dieldrin	51		57		30-150	11		20	A
4,4'-DDE	48		54		30-150	11		20	A
4,4'-DDD	50		56		30-150	11		20	A
4,4'-DDT	48		56		30-150	15		20	A
Endosulfan I	48		53		30-150	11		20	A
Endosulfan II	51		59		30-150	14		20	A
Endosulfan sulfate	41		49		30-150	17		20	A
Methoxychlor	54		62		30-150	14		20	A
cis-Chlordane	42		47		30-150	11		20	A
trans-Chlordane	50		54		30-150	9		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05 Batch: WG1573045-2 WG1573045-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	42		46		30-150	A
Decachlorobiphenyl	55		63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	46		50		30-150	B
Decachlorobiphenyl	55		63		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1573131-2 WG1573131-3									
2,4-D	80		78		30-150	3		30	A
2,4,5-T	77		74		30-150	4		30	A
2,4,5-TP (Silvex)	73		71		30-150	3		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	83		80		30-150	A
DCAA	73		70		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02-03 Batch: WG1573305-2 WG1573305-3									
Delta-BHC	67		72		30-150	7		30	A
Lindane	82		89		30-150	8		30	A
Alpha-BHC	78		84		30-150	7		30	A
Beta-BHC	78		84		30-150	7		30	A
Heptachlor	90		96		30-150	6		30	A
Aldrin	83		89		30-150	7		30	A
Heptachlor epoxide	82		88		30-150	7		30	A
Endrin	84		92		30-150	9		30	A
Endrin aldehyde	65		67		30-150	3		30	A
Endrin ketone	84		90		30-150	7		30	A
Dieldrin	86		95		30-150	10		30	A
4,4'-DDE	81		89		30-150	9		30	A
4,4'-DDD	87		96		30-150	10		30	A
4,4'-DDT	88		96		30-150	9		30	A
Endosulfan I	77		84		30-150	9		30	A
Endosulfan II	82		89		30-150	8		30	A
Endosulfan sulfate	64		67		30-150	5		30	A
Methoxychlor	90		98		30-150	9		30	A
cis-Chlordane	70		76		30-150	8		30	A
trans-Chlordane	81		88		30-150	8		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02-03 Batch: WG1573305-2 WG1573305-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		76		30-150	A
Decachlorobiphenyl	109		120		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		84		30-150	B
Decachlorobiphenyl	120		132		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 05 Batch: WG1574192-2 WG1574192-3									
2,4-D	85		81		30-150	5		25	A
2,4,5-T	88		85		30-150	3		25	A
2,4,5-TP (Silvex)	90		85		30-150	6		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	82		81		30-150	A
DCAA	83		81		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,04 Batch: WG1575386-2 WG1575386-3									
Delta-BHC	64		76		30-150	17		30	A
Lindane	79		94		30-150	17		30	A
Alpha-BHC	74		88		30-150	17		30	A
Beta-BHC	75		90		30-150	18		30	A
Heptachlor	86		102		30-150	17		30	A
Aldrin	78		94		30-150	19		30	A
Heptachlor epoxide	69		84		30-150	20		30	A
Endrin	80		98		30-150	20		30	A
Endrin aldehyde	52		68		30-150	27		30	A
Endrin ketone	73		95		30-150	26		30	A
Dieldrin	82		100		30-150	20		30	A
4,4'-DDE	75		94		30-150	22		30	A
4,4'-DDD	82		103		30-150	23		30	A
4,4'-DDT	81		103		30-150	24		30	A
Endosulfan I	72		88		30-150	20		30	A
Endosulfan II	76		95		30-150	22		30	A
Endosulfan sulfate	51		69		30-150	30		30	A
Methoxychlor	82		104		30-150	24		30	A
cis-Chlordane	65		79		30-150	19		30	A
trans-Chlordane	77		93		30-150	19		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,04 Batch: WG1575386-2 WG1575386-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		74		30-150	A
Decachlorobiphenyl	88		115		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		84		30-150	B
Decachlorobiphenyl	100		126		30-150	B

METALS

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-01
Client ID: EP19_1
Sample Location: BROOKLYN, NY
Date Collected: 11/17/21 13:00
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	569		mg/kg	9.07	2.45	2	11/18/21 20:23	11/19/21 16:12	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.53	0.344	2	11/18/21 20:23	11/19/21 16:12	EPA 3050B	1,6010D	SV
Arsenic, Total	0.390	J	mg/kg	0.907	0.188	2	11/18/21 20:23	11/19/21 16:12	EPA 3050B	1,6010D	SV
Barium, Total	3.57		mg/kg	0.907	0.158	2	11/18/21 20:23	11/19/21 16:12	EPA 3050B	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.453	0.030	2	11/18/21 20:23	11/19/21 16:12	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.907	0.089	2	11/18/21 20:23	11/19/21 16:12	EPA 3050B	1,6010D	SV
Calcium, Total	430		mg/kg	9.07	3.17	2	11/18/21 20:23	11/19/21 16:12	EPA 3050B	1,6010D	SV
Chromium, Total	2.44		mg/kg	0.907	0.087	2	11/18/21 20:23	11/19/21 16:12	EPA 3050B	1,6010D	SV
Cobalt, Total	0.435	J	mg/kg	1.81	0.150	2	11/18/21 20:23	11/19/21 16:12	EPA 3050B	1,6010D	SV
Copper, Total	0.598	J	mg/kg	0.907	0.234	2	11/18/21 20:23	11/19/21 16:12	EPA 3050B	1,6010D	SV
Iron, Total	959		mg/kg	4.53	0.819	2	11/18/21 20:23	11/19/21 16:12	EPA 3050B	1,6010D	SV
Lead, Total	1.46	J	mg/kg	4.53	0.243	2	11/18/21 20:23	11/19/21 16:12	EPA 3050B	1,6010D	SV
Magnesium, Total	275		mg/kg	9.07	1.40	2	11/18/21 20:23	11/19/21 16:12	EPA 3050B	1,6010D	SV
Manganese, Total	20.4		mg/kg	0.907	0.144	2	11/18/21 20:23	11/19/21 16:12	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.086	0.056	1	11/18/21 21:23	11/19/21 11:31	EPA 7471B	1,7471B	NB
Nickel, Total	1.19	J	mg/kg	2.27	0.219	2	11/18/21 20:23	11/19/21 16:12	EPA 3050B	1,6010D	SV
Potassium, Total	134	J	mg/kg	227	13.0	2	11/18/21 20:23	11/19/21 16:12	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.81	0.234	2	11/18/21 20:23	11/19/21 16:12	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.907	0.256	2	11/18/21 20:23	11/19/21 16:12	EPA 3050B	1,6010D	SV
Sodium, Total	247		mg/kg	181	2.86	2	11/18/21 20:23	11/19/21 16:12	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.81	0.286	2	11/18/21 20:23	11/19/21 16:12	EPA 3050B	1,6010D	SV
Vanadium, Total	1.74		mg/kg	0.907	0.184	2	11/18/21 20:23	11/19/21 16:12	EPA 3050B	1,6010D	SV
Zinc, Total	13.2		mg/kg	4.53	0.266	2	11/18/21 20:23	11/19/21 16:12	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.1	J	mg/kg	0.95	0.95	1		11/23/21 21:10	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2163526
Project Number: 170599501
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-02
Client ID: EPSW01_ -6.5
Sample Location: BROOKLYN, NY
Date Collected: 11/17/21 13:10
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1210		mg/kg	10.2	2.76	2	11/18/21 20:23	11/19/21 16:16	EPA 3050B	1,6010D	SV
Antimony, Total	0.848	J	mg/kg	5.11	0.388	2	11/18/21 20:23	11/19/21 16:16	EPA 3050B	1,6010D	SV
Arsenic, Total	1.31		mg/kg	1.02	0.212	2	11/18/21 20:23	11/19/21 16:16	EPA 3050B	1,6010D	SV
Barium, Total	2.43		mg/kg	1.02	0.178	2	11/18/21 20:23	11/19/21 16:16	EPA 3050B	1,6010D	SV
Beryllium, Total	0.061	J	mg/kg	0.511	0.034	2	11/18/21 20:23	11/19/21 16:16	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	1.02	0.100	2	11/18/21 20:23	11/19/21 16:16	EPA 3050B	1,6010D	SV
Calcium, Total	486		mg/kg	10.2	3.58	2	11/18/21 20:23	11/19/21 16:16	EPA 3050B	1,6010D	SV
Chromium, Total	3.60		mg/kg	1.02	0.098	2	11/18/21 20:23	11/19/21 16:16	EPA 3050B	1,6010D	SV
Cobalt, Total	1.23	J	mg/kg	2.04	0.170	2	11/18/21 20:23	11/19/21 16:16	EPA 3050B	1,6010D	SV
Copper, Total	1.56		mg/kg	1.02	0.264	2	11/18/21 20:23	11/19/21 16:16	EPA 3050B	1,6010D	SV
Iron, Total	2350		mg/kg	5.11	0.923	2	11/18/21 20:23	11/19/21 16:16	EPA 3050B	1,6010D	SV
Lead, Total	1.39	J	mg/kg	5.11	0.274	2	11/18/21 20:23	11/19/21 16:16	EPA 3050B	1,6010D	SV
Magnesium, Total	634		mg/kg	10.2	1.57	2	11/18/21 20:23	11/19/21 16:16	EPA 3050B	1,6010D	SV
Manganese, Total	30.6		mg/kg	1.02	0.162	2	11/18/21 20:23	11/19/21 16:16	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.095	0.062	1	11/18/21 21:23	11/19/21 11:34	EPA 7471B	1,7471B	NB
Nickel, Total	5.95		mg/kg	2.55	0.247	2	11/18/21 20:23	11/19/21 16:16	EPA 3050B	1,6010D	SV
Potassium, Total	205	J	mg/kg	255	14.7	2	11/18/21 20:23	11/19/21 16:16	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	2.04	0.264	2	11/18/21 20:23	11/19/21 16:16	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	1.02	0.289	2	11/18/21 20:23	11/19/21 16:16	EPA 3050B	1,6010D	SV
Sodium, Total	369		mg/kg	204	3.22	2	11/18/21 20:23	11/19/21 16:16	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	2.04	0.322	2	11/18/21 20:23	11/19/21 16:16	EPA 3050B	1,6010D	SV
Vanadium, Total	3.94		mg/kg	1.02	0.207	2	11/18/21 20:23	11/19/21 16:16	EPA 3050B	1,6010D	SV
Zinc, Total	9.76		mg/kg	5.11	0.299	2	11/18/21 20:23	11/19/21 16:16	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	3.6		mg/kg	1.1	1.1	1		11/19/21 16:16	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-03
Client ID: EPSW06_ -6.5
Sample Location: BROOKLYN, NY
Date Collected: 11/17/21 13:20
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1250		mg/kg	8.48	2.29	2	11/18/21 20:23	11/19/21 16:20	EPA 3050B	1,6010D	SV
Antimony, Total	0.356	J	mg/kg	4.24	0.322	2	11/18/21 20:23	11/19/21 16:20	EPA 3050B	1,6010D	SV
Arsenic, Total	1.36		mg/kg	0.848	0.176	2	11/18/21 20:23	11/19/21 16:20	EPA 3050B	1,6010D	SV
Barium, Total	10.1		mg/kg	0.848	0.148	2	11/18/21 20:23	11/19/21 16:20	EPA 3050B	1,6010D	SV
Beryllium, Total	0.059	J	mg/kg	0.424	0.028	2	11/18/21 20:23	11/19/21 16:20	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.848	0.083	2	11/18/21 20:23	11/19/21 16:20	EPA 3050B	1,6010D	SV
Calcium, Total	1380		mg/kg	8.48	2.97	2	11/18/21 20:23	11/19/21 16:20	EPA 3050B	1,6010D	SV
Chromium, Total	3.74		mg/kg	0.848	0.081	2	11/18/21 20:23	11/19/21 16:20	EPA 3050B	1,6010D	SV
Cobalt, Total	1.36	J	mg/kg	1.70	0.141	2	11/18/21 20:23	11/19/21 16:20	EPA 3050B	1,6010D	SV
Copper, Total	3.26		mg/kg	0.848	0.219	2	11/18/21 20:23	11/19/21 16:20	EPA 3050B	1,6010D	SV
Iron, Total	2530		mg/kg	4.24	0.766	2	11/18/21 20:23	11/19/21 16:20	EPA 3050B	1,6010D	SV
Lead, Total	11.6		mg/kg	4.24	0.227	2	11/18/21 20:23	11/19/21 16:20	EPA 3050B	1,6010D	SV
Magnesium, Total	769		mg/kg	8.48	1.31	2	11/18/21 20:23	11/19/21 16:20	EPA 3050B	1,6010D	SV
Manganese, Total	32.2		mg/kg	0.848	0.135	2	11/18/21 20:23	11/19/21 16:20	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.091	0.060	1	11/18/21 21:23	11/19/21 11:37	EPA 7471B	1,7471B	NB
Nickel, Total	5.89		mg/kg	2.12	0.205	2	11/18/21 20:23	11/19/21 16:20	EPA 3050B	1,6010D	SV
Potassium, Total	196	J	mg/kg	212	12.2	2	11/18/21 20:23	11/19/21 16:20	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.70	0.219	2	11/18/21 20:23	11/19/21 16:20	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.848	0.240	2	11/18/21 20:23	11/19/21 16:20	EPA 3050B	1,6010D	SV
Sodium, Total	146	J	mg/kg	170	2.67	2	11/18/21 20:23	11/19/21 16:20	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.70	0.267	2	11/18/21 20:23	11/19/21 16:20	EPA 3050B	1,6010D	SV
Vanadium, Total	4.54		mg/kg	0.848	0.172	2	11/18/21 20:23	11/19/21 16:20	EPA 3050B	1,6010D	SV
Zinc, Total	35.5		mg/kg	4.24	0.248	2	11/18/21 20:23	11/19/21 16:20	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	3.7		mg/kg	0.88	0.88	1		11/19/21 16:20	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-04
Client ID: DUP05_111721
Sample Location: BROOKLYN, NY
Date Collected: 11/17/21 00:00
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	472		mg/kg	9.11	2.46	2	11/18/21 20:23	11/19/21 16:24	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.55	0.346	2	11/18/21 20:23	11/19/21 16:24	EPA 3050B	1,6010D	SV
Arsenic, Total	0.264	J	mg/kg	0.911	0.189	2	11/18/21 20:23	11/19/21 16:24	EPA 3050B	1,6010D	SV
Barium, Total	3.23		mg/kg	0.911	0.158	2	11/18/21 20:23	11/19/21 16:24	EPA 3050B	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.455	0.030	2	11/18/21 20:23	11/19/21 16:24	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.911	0.089	2	11/18/21 20:23	11/19/21 16:24	EPA 3050B	1,6010D	SV
Calcium, Total	396		mg/kg	9.11	3.19	2	11/18/21 20:23	11/19/21 16:24	EPA 3050B	1,6010D	SV
Chromium, Total	2.16		mg/kg	0.911	0.087	2	11/18/21 20:23	11/19/21 16:24	EPA 3050B	1,6010D	SV
Cobalt, Total	0.382	J	mg/kg	1.82	0.151	2	11/18/21 20:23	11/19/21 16:24	EPA 3050B	1,6010D	SV
Copper, Total	0.556	J	mg/kg	0.911	0.235	2	11/18/21 20:23	11/19/21 16:24	EPA 3050B	1,6010D	SV
Iron, Total	807		mg/kg	4.55	0.822	2	11/18/21 20:23	11/19/21 16:24	EPA 3050B	1,6010D	SV
Lead, Total	1.38	J	mg/kg	4.55	0.244	2	11/18/21 20:23	11/19/21 16:24	EPA 3050B	1,6010D	SV
Magnesium, Total	218		mg/kg	9.11	1.40	2	11/18/21 20:23	11/19/21 16:24	EPA 3050B	1,6010D	SV
Manganese, Total	18.5		mg/kg	0.911	0.145	2	11/18/21 20:23	11/19/21 16:24	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.084	0.055	1	11/18/21 21:23	11/19/21 11:41	EPA 7471B	1,7471B	NB
Nickel, Total	0.929	J	mg/kg	2.28	0.220	2	11/18/21 20:23	11/19/21 16:24	EPA 3050B	1,6010D	SV
Potassium, Total	118	J	mg/kg	228	13.1	2	11/18/21 20:23	11/19/21 16:24	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.82	0.235	2	11/18/21 20:23	11/19/21 16:24	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.911	0.258	2	11/18/21 20:23	11/19/21 16:24	EPA 3050B	1,6010D	SV
Sodium, Total	282		mg/kg	182	2.87	2	11/18/21 20:23	11/19/21 16:24	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.82	0.287	2	11/18/21 20:23	11/19/21 16:24	EPA 3050B	1,6010D	SV
Vanadium, Total	1.52		mg/kg	0.911	0.185	2	11/18/21 20:23	11/19/21 16:24	EPA 3050B	1,6010D	SV
Zinc, Total	11.3		mg/kg	4.55	0.267	2	11/18/21 20:23	11/19/21 16:24	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.2		mg/kg	0.93	0.93	1		11/23/21 21:10	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-05
Client ID: FB05_111721
Sample Location: BROOKLYN, NY
Date Collected: 11/17/21 13:30
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.032	1	11/23/21 10:03	11/24/21 16:27	EPA 3005A	1,6010D	JC
Antimony, Total	ND		mg/l	0.050	0.007	1	11/23/21 10:03	11/24/21 16:27	EPA 3005A	1,6010D	JC
Arsenic, Total	ND		mg/l	0.005	0.002	1	11/23/21 10:03	11/24/21 16:27	EPA 3005A	1,6010D	JC
Barium, Total	ND		mg/l	0.010	0.002	1	11/23/21 10:03	11/24/21 16:27	EPA 3005A	1,6010D	JC
Beryllium, Total	ND		mg/l	0.005	0.001	1	11/23/21 10:03	11/24/21 16:27	EPA 3005A	1,6010D	JC
Cadmium, Total	ND		mg/l	0.005	0.001	1	11/23/21 10:03	11/24/21 16:27	EPA 3005A	1,6010D	JC
Calcium, Total	ND		mg/l	0.100	0.035	1	11/23/21 10:03	11/24/21 16:27	EPA 3005A	1,6010D	JC
Chromium, Total	ND		mg/l	0.010	0.002	1	11/23/21 10:03	11/24/21 16:27	EPA 3005A	1,6010D	JC
Cobalt, Total	ND		mg/l	0.020	0.002	1	11/23/21 10:03	11/24/21 16:27	EPA 3005A	1,6010D	JC
Copper, Total	ND		mg/l	0.010	0.002	1	11/23/21 10:03	11/24/21 16:27	EPA 3005A	1,6010D	JC
Iron, Total	ND		mg/l	0.050	0.009	1	11/23/21 10:03	11/24/21 16:27	EPA 3005A	1,6010D	JC
Lead, Total	ND		mg/l	0.010	0.003	1	11/23/21 10:03	11/24/21 16:27	EPA 3005A	1,6010D	JC
Magnesium, Total	ND		mg/l	0.100	0.015	1	11/23/21 10:03	11/24/21 16:27	EPA 3005A	1,6010D	JC
Manganese, Total	ND		mg/l	0.010	0.002	1	11/23/21 10:03	11/24/21 16:27	EPA 3005A	1,6010D	JC
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/23/21 11:42	11/24/21 11:39	EPA 7470A	1,7470A	AC
Nickel, Total	ND		mg/l	0.025	0.002	1	11/23/21 10:03	11/24/21 16:27	EPA 3005A	1,6010D	JC
Potassium, Total	ND		mg/l	2.50	0.237	1	11/23/21 10:03	11/24/21 16:27	EPA 3005A	1,6010D	JC
Selenium, Total	ND		mg/l	0.010	0.004	1	11/23/21 10:03	11/24/21 16:27	EPA 3005A	1,6010D	JC
Silver, Total	ND		mg/l	0.007	0.003	1	11/23/21 10:03	11/24/21 16:27	EPA 3005A	1,6010D	JC
Sodium, Total	0.956	J	mg/l	2.00	0.120	1	11/23/21 10:03	11/24/21 16:27	EPA 3005A	1,6010D	JC
Thallium, Total	ND		mg/l	0.020	0.003	1	11/23/21 10:03	11/24/21 16:27	EPA 3005A	1,6010D	JC
Vanadium, Total	ND		mg/l	0.010	0.002	1	11/23/21 10:03	11/24/21 16:27	EPA 3005A	1,6010D	JC
Zinc, Total	ND		mg/l	0.050	0.002	1	11/23/21 10:03	11/24/21 16:27	EPA 3005A	1,6010D	JC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		11/24/21 16:27	NA	107,-	

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1573256-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	11/18/21 20:23	11/19/21 14:14	1,6010D	SV
Antimony, Total	ND		mg/kg	2.00	0.152	1	11/18/21 20:23	11/19/21 14:14	1,6010D	SV
Arsenic, Total	ND		mg/kg	0.400	0.083	1	11/18/21 20:23	11/19/21 14:14	1,6010D	SV
Barium, Total	ND		mg/kg	0.400	0.070	1	11/18/21 20:23	11/19/21 14:14	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.200	0.013	1	11/18/21 20:23	11/19/21 14:14	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.400	0.039	1	11/18/21 20:23	11/19/21 14:14	1,6010D	SV
Calcium, Total	ND		mg/kg	4.00	1.40	1	11/18/21 20:23	11/19/21 14:14	1,6010D	SV
Chromium, Total	ND		mg/kg	0.400	0.038	1	11/18/21 20:23	11/19/21 14:14	1,6010D	SV
Cobalt, Total	ND		mg/kg	0.800	0.066	1	11/18/21 20:23	11/19/21 14:14	1,6010D	SV
Copper, Total	ND		mg/kg	0.400	0.103	1	11/18/21 20:23	11/19/21 14:14	1,6010D	SV
Iron, Total	ND		mg/kg	2.00	0.361	1	11/18/21 20:23	11/19/21 14:14	1,6010D	SV
Lead, Total	ND		mg/kg	2.00	0.107	1	11/18/21 20:23	11/19/21 14:14	1,6010D	SV
Magnesium, Total	ND		mg/kg	4.00	0.616	1	11/18/21 20:23	11/19/21 14:14	1,6010D	SV
Manganese, Total	ND		mg/kg	0.400	0.064	1	11/18/21 20:23	11/19/21 14:14	1,6010D	SV
Nickel, Total	ND		mg/kg	1.00	0.097	1	11/18/21 20:23	11/19/21 14:14	1,6010D	SV
Potassium, Total	ND		mg/kg	100	5.76	1	11/18/21 20:23	11/19/21 14:14	1,6010D	SV
Selenium, Total	ND		mg/kg	0.800	0.103	1	11/18/21 20:23	11/19/21 14:14	1,6010D	SV
Silver, Total	ND		mg/kg	0.400	0.113	1	11/18/21 20:23	11/19/21 14:14	1,6010D	SV
Sodium, Total	1.35	J	mg/kg	80.0	1.26	1	11/18/21 20:23	11/19/21 14:14	1,6010D	SV
Thallium, Total	ND		mg/kg	0.800	0.126	1	11/18/21 20:23	11/19/21 14:14	1,6010D	SV
Vanadium, Total	ND		mg/kg	0.400	0.081	1	11/18/21 20:23	11/19/21 14:14	1,6010D	SV
Zinc, Total	ND		mg/kg	2.00	0.117	1	11/18/21 20:23	11/19/21 14:14	1,6010D	SV

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1573259-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	11/18/21 21:23	11/19/21 10:11	1,7471B	NB

Project Name: 1607 SURF AVENUE **Lab Number:** L2163526

Project Number: 170599501 **Report Date:** 12/03/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05 Batch: WG1574586-1										
Aluminum, Total	ND		mg/l	0.100	0.032	1	11/23/21 10:03	11/24/21 16:11	1,6010D	JC
Antimony, Total	ND		mg/l	0.050	0.007	1	11/23/21 10:03	11/24/21 16:11	1,6010D	JC
Arsenic, Total	ND		mg/l	0.005	0.002	1	11/23/21 10:03	11/24/21 16:11	1,6010D	JC
Barium, Total	ND		mg/l	0.010	0.002	1	11/23/21 10:03	11/24/21 16:11	1,6010D	JC
Beryllium, Total	ND		mg/l	0.005	0.001	1	11/23/21 10:03	11/24/21 16:11	1,6010D	JC
Cadmium, Total	ND		mg/l	0.005	0.001	1	11/23/21 10:03	11/24/21 16:11	1,6010D	JC
Calcium, Total	ND		mg/l	0.100	0.035	1	11/23/21 10:03	11/24/21 16:11	1,6010D	JC
Chromium, Total	ND		mg/l	0.010	0.002	1	11/23/21 10:03	11/24/21 16:11	1,6010D	JC
Cobalt, Total	ND		mg/l	0.020	0.002	1	11/23/21 10:03	11/24/21 16:11	1,6010D	JC
Copper, Total	ND		mg/l	0.010	0.002	1	11/23/21 10:03	11/24/21 16:11	1,6010D	JC
Iron, Total	ND		mg/l	0.050	0.009	1	11/23/21 10:03	11/24/21 16:11	1,6010D	JC
Lead, Total	ND		mg/l	0.010	0.003	1	11/23/21 10:03	11/24/21 16:11	1,6010D	JC
Magnesium, Total	ND		mg/l	0.100	0.015	1	11/23/21 10:03	11/24/21 16:11	1,6010D	JC
Manganese, Total	ND		mg/l	0.010	0.002	1	11/23/21 10:03	11/24/21 16:11	1,6010D	JC
Nickel, Total	ND		mg/l	0.025	0.002	1	11/23/21 10:03	11/24/21 16:11	1,6010D	JC
Potassium, Total	ND		mg/l	2.50	0.237	1	11/23/21 10:03	11/24/21 16:11	1,6010D	JC
Selenium, Total	ND		mg/l	0.010	0.004	1	11/23/21 10:03	11/24/21 16:11	1,6010D	JC
Silver, Total	ND		mg/l	0.007	0.003	1	11/23/21 10:03	11/24/21 16:11	1,6010D	JC
Sodium, Total	0.317	J	mg/l	2.00	0.120	1	11/23/21 10:03	11/24/21 16:11	1,6010D	JC
Thallium, Total	ND		mg/l	0.020	0.003	1	11/23/21 10:03	11/24/21 16:11	1,6010D	JC
Vanadium, Total	ND		mg/l	0.010	0.002	1	11/23/21 10:03	11/24/21 16:11	1,6010D	JC
Zinc, Total	ND		mg/l	0.050	0.002	1	11/23/21 10:03	11/24/21 16:11	1,6010D	JC

Prep Information

Digestion Method: EPA 3005A

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05 Batch: WG1574588-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/23/21 11:42	11/24/21 10:56	1,7470A	AC

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1573256-2 SRM Lot Number: D109-540								
Aluminum, Total	77		-		50-150	-		
Antimony, Total	126		-		19-250	-		
Arsenic, Total	100		-		70-130	-		
Barium, Total	95		-		75-125	-		
Beryllium, Total	99		-		75-125	-		
Cadmium, Total	96		-		75-125	-		
Calcium, Total	92		-		73-128	-		
Chromium, Total	95		-		70-130	-		
Cobalt, Total	96		-		75-125	-		
Copper, Total	94		-		75-125	-		
Iron, Total	90		-		35-165	-		
Lead, Total	97		-		72-128	-		
Magnesium, Total	92		-		62-138	-		
Manganese, Total	119		-		74-126	-		
Nickel, Total	95		-		70-130	-		
Potassium, Total	87		-		59-141	-		
Selenium, Total	97		-		68-132	-		
Silver, Total	100		-		68-131	-		
Sodium, Total	94		-		35-165	-		
Thallium, Total	95		-		68-131	-		
Vanadium, Total	89		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1573256-2 SRM Lot Number: D109-540					
Zinc, Total	97	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1573259-2 SRM Lot Number: D109-540					
Mercury, Total	101	-	60-140	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05 Batch: WG1574586-2					
Aluminum, Total	108	-	80-120	-	
Antimony, Total	105	-	80-120	-	
Arsenic, Total	109	-	80-120	-	
Barium, Total	103	-	80-120	-	
Beryllium, Total	107	-	80-120	-	
Cadmium, Total	103	-	80-120	-	
Calcium, Total	100	-	80-120	-	
Chromium, Total	102	-	80-120	-	
Cobalt, Total	97	-	80-120	-	
Copper, Total	102	-	80-120	-	
Iron, Total	103	-	80-120	-	
Lead, Total	102	-	80-120	-	
Magnesium, Total	101	-	80-120	-	
Manganese, Total	101	-	80-120	-	
Nickel, Total	100	-	80-120	-	
Potassium, Total	107	-	80-120	-	
Selenium, Total	109	-	80-120	-	
Silver, Total	107	-	80-120	-	
Sodium, Total	109	-	80-120	-	
Thallium, Total	102	-	80-120	-	
Vanadium, Total	99	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05 Batch: WG1574586-2					
Zinc, Total	103	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 05 Batch: WG1574588-2					
Mercury, Total	103	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1573256-3 QC Sample: L2162917-02 Client ID: MS Sample												
Aluminum, Total	9100	188	8860	**0**	Q	-	-		75-125	-		20
Antimony, Total	ND	46.9	36.0	77		-	-		75-125	-		20
Arsenic, Total	7.50	11.3	15.6	**72**	Q	-	-		75-125	-		20
Barium, Total	97.5	188	235	**73**	Q	-	-		75-125	-		20
Beryllium, Total	0.662	4.69	4.63	84		-	-		75-125	-		20
Cadmium, Total	ND	4.97	3.62	**73**	Q	-	-		75-125	-		20
Calcium, Total	18900	938	65500	**4960**	Q	-	-		75-125	-		20
Chromium, Total	22.1	18.8	36.0	**74**	Q	-	-		75-125	-		20
Cobalt, Total	8.45	46.9	41.6	**71**	Q	-	-		75-125	-		20
Copper, Total	35.4	23.5	57.5	94		-	-		75-125	-		20
Iron, Total	17000	93.8	13600	**0**	Q	-	-		75-125	-		20
Lead, Total	33.4	49.7	54.2	**42**	Q	-	-		75-125	-		20
Magnesium, Total	9850	938	39600	**3170**	Q	-	-		75-125	-		20
Manganese, Total	324	46.9	302	**0**	Q	-	-		75-125	-		20
Nickel, Total	120	46.9	424	**648**	Q	-	-		75-125	-		20
Potassium, Total	895	938	1970	114		-	-		75-125	-		20
Selenium, Total	0.304J	11.3	9.65	86		-	-		75-125	-		20
Silver, Total	ND	28.2	25.5	90		-	-		75-125	-		20
Sodium, Total	210	938	1170	102		-	-		75-125	-		20
Thallium, Total	0.543J	11.3	8.47	75		-	-		75-125	-		20
Vanadium, Total	14.8	46.9	56.5	89		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1573256-3 QC Sample: L2162917-02 Client ID: MS Sample										
Zinc, Total	140	46.9	134	**0**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1573259-3 QC Sample: L2162917-02 Client ID: MS Sample										
Mercury, Total	0.103	0.17	0.273	100		-	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1574586-3 QC Sample: L2163526-05 Client ID: FB05_111721									
Aluminum, Total	ND	2	2.19	110	-	-	75-125	-	20
Antimony, Total	ND	0.5	0.451	90	-	-	75-125	-	20
Arsenic, Total	ND	0.12	0.133	111	-	-	75-125	-	20
Barium, Total	ND	2	2.07	104	-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.055	109	-	-	75-125	-	20
Cadmium, Total	ND	0.053	0.055	104	-	-	75-125	-	20
Calcium, Total	ND	10	9.95	100	-	-	75-125	-	20
Chromium, Total	ND	0.2	0.204	102	-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.484	97	-	-	75-125	-	20
Copper, Total	ND	0.25	0.254	102	-	-	75-125	-	20
Iron, Total	ND	1	1.02	102	-	-	75-125	-	20
Lead, Total	ND	0.53	0.539	102	-	-	75-125	-	20
Magnesium, Total	ND	10	10.3	103	-	-	75-125	-	20
Manganese, Total	ND	0.5	0.497	99	-	-	75-125	-	20
Nickel, Total	ND	0.5	0.501	100	-	-	75-125	-	20
Potassium, Total	ND	10	10.8	108	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.134	112	-	-	75-125	-	20
Silver, Total	ND	0.05	0.052	104	-	-	75-125	-	20
Sodium, Total	0.956J	10	11.2	112	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.124	103	-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.497	99	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1574586-3 QC Sample: L2163526-05 Client ID: FB05_111721									
Zinc, Total	ND	0.5	0.515	103	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1574588-3 WG1574588-4 QC Sample: L2162290-09 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00491	98	0.00512	102	75-125	4	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1573256-4 QC Sample: L2162917-02 Client ID: DUP Sample						
Arsenic, Total	7.50	7.69	mg/kg	3		20
Barium, Total	97.5	81.6	mg/kg	18		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	22.1	23.8	mg/kg	7		20
Cobalt, Total	8.45	7.69	mg/kg	9		20
Copper, Total	35.4	30.3	mg/kg	16		20
Lead, Total	33.4	24.0	mg/kg	**33**	Q	20
Manganese, Total	324	347	mg/kg	7		20
Nickel, Total	120	87.7	mg/kg	**31**	Q	20
Selenium, Total	0.304J	0.295J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Thallium, Total	0.543J	0.562J	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1573259-4 QC Sample: L2162917-02 Client ID: DUP Sample						
Mercury, Total	0.103	0.165	mg/kg	**46**	Q	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1574586-4 QC Sample: L2163526-05 Client ID: FB05_111721					
Aluminum, Total	ND	0.037J	mg/l	NC	20
Antimony, Total	ND	0.017J	mg/l	NC	20
Arsenic, Total	ND	ND	mg/l	NC	20
Barium, Total	ND	ND	mg/l	NC	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Calcium, Total	ND	ND	mg/l	NC	20
Chromium, Total	ND	ND	mg/l	NC	20
Cobalt, Total	ND	ND	mg/l	NC	20
Copper, Total	ND	ND	mg/l	NC	20
Iron, Total	ND	ND	mg/l	NC	20
Lead, Total	ND	ND	mg/l	NC	20
Magnesium, Total	ND	ND	mg/l	NC	20
Manganese, Total	ND	ND	mg/l	NC	20
Nickel, Total	ND	ND	mg/l	NC	20
Potassium, Total	ND	ND	mg/l	NC	20
Selenium, Total	ND	ND	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Sodium, Total	0.956J	0.686J	mg/l	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1574586-4 QC Sample: L2163526-05 Client ID: FB05_111721					
Thallium, Total	ND	ND	mg/l	NC	20
Vanadium, Total	ND	ND	mg/l	NC	20
Zinc, Total	ND	ND	mg/l	NC	20

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2163526
Report Date: 12/03/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1573256-6 QC Sample: L2162917-02 Client ID: DUP Sample						
Barium, Total	97.5	120	mg/kg	**23**	Q	20
Copper, Total	35.4	43.4	mg/kg	**23**	Q	20
Manganese, Total	324	431	mg/kg	**33**	Q	20
Nickel, Total	120	155	mg/kg	**29**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-01
Client ID: EP19_1
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 11/17/21 13:00
Date Received: 11/17/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.2		%	0.100	NA	1	-	11/18/21 07:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	11/22/21 06:00	11/22/21 16:17	1,9010C/9012B	CS
Chromium, Hexavalent	0.297	J	mg/kg	0.950	0.190	1	11/22/21 15:15	11/23/21 21:10	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-02
Client ID: EPSW01_ -6.5
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/17/21 13:10
Date Received: 11/17/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.8		%	0.100	NA	1	-	11/18/21 07:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	11/18/21 13:40	11/19/21 09:36	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	1.06	0.211	1	11/19/21 09:44	11/19/21 12:20	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-03
Client ID: EPSW06_ -6.5
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/17/21 13:20
Date Received: 11/17/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.7		%	0.100	NA	1	-	11/18/21 07:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	11/18/21 13:40	11/19/21 09:37	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.882	0.176	1	11/19/21 09:44	11/19/21 12:20	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-04
Client ID: DUP05_111721
Sample Location: BROOKLYN, NY

Date Collected: 11/17/21 00:00
Date Received: 11/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.7		%	0.100	NA	1	-	11/18/21 07:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	11/22/21 06:00	11/22/21 16:18	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.933	0.187	1	11/22/21 15:15	11/23/21 21:10	1,7196A	NL

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

SAMPLE RESULTS

Lab ID: L2163526-05
Client ID: FB05_111721
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Water
Date Collected: 11/17/21 13:30
Date Received: 11/17/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	11/19/21 11:30	11/19/21 14:29	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	11/18/21 08:00	11/18/21 08:34	1,7196A	KP

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 05 Batch: WG1572991-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	11/18/21 08:00	11/18/21 08:32	1,7196A	KP
General Chemistry - Westborough Lab for sample(s): 02-03 Batch: WG1573062-1										
Cyanide, Total	ND		mg/kg	0.90	0.19	1	11/18/21 13:40	11/19/21 09:18	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 02-03 Batch: WG1573170-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	11/19/21 09:44	11/19/21 12:20	1,7196A	NL
General Chemistry - Westborough Lab for sample(s): 05 Batch: WG1573459-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	11/19/21 11:30	11/19/21 14:22	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 01,04 Batch: WG1574286-1										
Cyanide, Total	ND		mg/kg	0.84	0.18	1	11/22/21 06:00	11/22/21 16:04	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 01,04 Batch: WG1574490-1										
Chromium, Hexavalent	0.790	J	mg/kg	0.800	0.160	1	11/22/21 15:15	11/23/21 21:10	1,7196A	NL

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163526

Report Date: 12/03/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1572991-2								
Chromium, Hexavalent	108		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-03 Batch: WG1573062-2 WG1573062-3								
Cyanide, Total	**56**	Q	88		80-120	**46**	Q	35
General Chemistry - Westborough Lab Associated sample(s): 02-03 Batch: WG1573170-2								
Chromium, Hexavalent	97		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1573459-2 WG1573459-3								
Cyanide, Total	109		108		85-115	1		20
General Chemistry - Westborough Lab Associated sample(s): 01,04 Batch: WG1574286-2 WG1574286-3								
Cyanide, Total	**73**	Q	**73**	Q	80-120	11		35
General Chemistry - Westborough Lab Associated sample(s): 01,04 Batch: WG1574490-2								
Chromium, Hexavalent	109		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1572991-4 QC Sample: L2163526-05 Client ID: FB05_111721												
Chromium, Hexavalent	ND	0.1	0.105	105		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG1573062-4 WG1573062-5 QC Sample: L2162917-02 Client ID: MS Sample												
Cyanide, Total	ND	11	9.7	88		13	110		75-125	29		35
General Chemistry - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG1573170-4 QC Sample: L2163526-03 Client ID: EPSW06_ -6.5												
Chromium, Hexavalent	ND	1010	847	84		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1573459-4 WG1573459-5 QC Sample: L2163526-05 Client ID: FB05_111721												
Cyanide, Total	ND	0.2	0.029	**15**	Q	0.215	108		80-120	**151**	Q	20
General Chemistry - Westborough Lab Associated sample(s): 01,04 QC Batch ID: WG1574286-4 WG1574286-5 QC Sample: L2162295-04 Client ID: MS Sample												
Cyanide, Total	ND	13	13	98		12	86		75-125	8		35
General Chemistry - Westborough Lab Associated sample(s): 01,04 QC Batch ID: WG1574490-4 QC Sample: L2163526-04 Client ID: DUP05_111721												
Chromium, Hexavalent	ND	1150	1280	111		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1572904-1 QC Sample: L2163526-01 Client ID: EP19_1						
Solids, Total	84.2	85.3	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1572991-3 QC Sample: L2163526-05 Client ID: FB05_111721						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG1573170-6 QC Sample: L2163526-03 Client ID: EPSW06_ -6.5						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01,04 QC Batch ID: WG1574490-6 QC Sample: L2163526-04 Client ID: DUP05_111721						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2163526-01A	Vial MeOH preserved	C	NA		5.6	Y	Absent		NYTCL-8260HLW(14)
L2163526-01B	Vial water preserved	C	NA		5.6	Y	Absent	18-NOV-21 06:16	NYTCL-8260HLW(14)
L2163526-01C	Vial water preserved	C	NA		5.6	Y	Absent	18-NOV-21 06:16	NYTCL-8260HLW(14)
L2163526-01D	Plastic 2oz unpreserved for TS	C	NA		5.6	Y	Absent		TS(7)
L2163526-01E	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2163526-01F	Metals Only-Glass 60mL/2oz unpreserved	C	NA		5.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2163526-01G	Glass 120ml/4oz unpreserved	C	NA		5.6	Y	Absent		HEXCR-7196(30)
L2163526-01H	Plastic 8oz unpreserved	A	NA		3.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2163526-01I	Glass 500ml/16oz unpreserved	C	NA		5.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2163526-02A	Vial MeOH preserved	C	NA		5.6	Y	Absent		NYTCL-8260HLW(14)
L2163526-02B	Vial water preserved	C	NA		5.6	Y	Absent	18-NOV-21 06:16	NYTCL-8260HLW(14)
L2163526-02C	Vial water preserved	C	NA		5.6	Y	Absent	18-NOV-21 06:16	NYTCL-8260HLW(14)
L2163526-02D	Plastic 2oz unpreserved for TS	C	NA		5.6	Y	Absent		TS(7)
L2163526-02E	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2163526-02F	Metals Only-Glass 60mL/2oz unpreserved	C	NA		5.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),HG-T(28),FE-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2163526-02G	Glass 120ml/4oz unpreserved	C	NA		5.6	Y	Absent		HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2163526-02H	Plastic 8oz unpreserved	A	NA		3.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2163526-02I	Glass 500ml/16oz unpreserved	C	NA		5.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2163526-03A	Vial MeOH preserved	C	NA		5.6	Y	Absent		NYTCL-8260HLW(14)
L2163526-03B	Vial water preserved	C	NA		5.6	Y	Absent	18-NOV-21 06:16	NYTCL-8260HLW(14)
L2163526-03C	Vial water preserved	C	NA		5.6	Y	Absent	18-NOV-21 06:16	NYTCL-8260HLW(14)
L2163526-03D	Plastic 2oz unpreserved for TS	C	NA		5.6	Y	Absent		TS(7)
L2163526-03E	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2163526-03F	Metals Only-Glass 60mL/2oz unpreserved	C	NA		5.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),HG-T(28),FE-TI(180),MN-TI(180),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2163526-03G	Glass 120ml/4oz unpreserved	C	NA		5.6	Y	Absent		HEXCR-7196(30)
L2163526-03H	Plastic 8oz unpreserved	A	NA		3.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2163526-03I	Glass 500ml/16oz unpreserved	C	NA		5.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2163526-04A	Vial MeOH preserved	C	NA		5.6	Y	Absent		NYTCL-8260HLW(14)
L2163526-04B	Vial water preserved	C	NA		5.6	Y	Absent	18-NOV-21 06:16	NYTCL-8260HLW(14)
L2163526-04C	Vial water preserved	C	NA		5.6	Y	Absent	18-NOV-21 06:16	NYTCL-8260HLW(14)
L2163526-04D	Plastic 2oz unpreserved for TS	C	NA		5.6	Y	Absent		TS(7)
L2163526-04E	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2163526-04F	Metals Only-Glass 60mL/2oz unpreserved	C	NA		5.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2163526-04G	Glass 120ml/4oz unpreserved	C	NA		5.6	Y	Absent		HEXCR-7196(30)
L2163526-04H	Plastic 8oz unpreserved	A	NA		3.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2163526-04I	Glass 500ml/16oz unpreserved	C	NA		5.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2163526-05A	Vial HCl preserved	B	NA		4.7	Y	Absent		NYTCL-8260(14)
L2163526-05B	Vial HCl preserved	B	NA		4.7	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163526
Report Date: 12/03/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2163526-05C	Vial HCl preserved	B	NA		4.7	Y	Absent		NYTCL-8260(14)
L2163526-05D	Amber 120ml unpreserved	B	7	7	4.7	Y	Absent		NYTCL-8082-LVI(365)
L2163526-05E	Amber 120ml unpreserved	B	7	7	4.7	Y	Absent		NYTCL-8082-LVI(365)
L2163526-05F	Amber 120ml unpreserved	B	7	7	4.7	Y	Absent		NYTCL-8081(7)
L2163526-05G	Amber 120ml unpreserved	B	7	7	4.7	Y	Absent		NYTCL-8081(7)
L2163526-05H	Plastic 250ml HNO3 preserved	B	<2	<2	4.7	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),ZN-TI(180),PB-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2163526-05I	Plastic 250ml NaOH preserved	B	>12	>12	4.7	Y	Absent		TCN-9010(14)
L2163526-05J	Plastic 500ml unpreserved	B	7	7	4.7	Y	Absent		HEXCR-7196(1)
L2163526-05K	Amber 250ml unpreserved	B	7	7	4.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2163526-05L	Amber 250ml unpreserved	B	7	7	4.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2163526-05M	Amber 250ml unpreserved	B	7	7	4.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2163526-05N	Amber 250ml unpreserved	B	7	7	4.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2163526-05O	Amber 1000ml unpreserved	B	7	7	4.7	Y	Absent		HERB-APA(7)
L2163526-05P	Amber 1000ml unpreserved	B	7	7	4.7	Y	Absent		HERB-APA(7)
L2163526-05Q	Plastic 250ml unpreserved	A	NA		3.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2163526-06A	Vial water preserved	C	NA		5.6	Y	Absent	**19-NOV-21 18:13**	ARCHIVE()
L2163526-06B	Vial water preserved	C	NA		5.6	Y	Absent	**19-NOV-21 18:13**	ARCHIVE()

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163526
Report Date: 12/03/21

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2163526
Project Number:	170599501	**Report Date:**	12/03/21

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:	1607 SURF AVENUE	**Lab Number:**	L2163526
Project Number:	170599501	**Report Date:**	12/03/21

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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2163526
Project Number:	170599501	**Report Date:**	12/03/21

Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2163526
Project Number:	170599501	**Report Date:**	12/03/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

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, SM4500Cl-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, **LACHAT 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

ALPHA ANALYTICAL

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TEL: 508-898-9220
FAX: 508-898-9193

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 1

Date Rec'd in Lab: 11/18/21

ALPHA Job #: L2163526

Client Information
Client: LANGAN
Address: 360 W 31st Street 8th Floor, NYC, NY
Phone:
Fax:
Email: KSeman@Langan.com

Project Information
Project Name: 1607 Surf Avenue
Project Location: Brooklyn, NY
Project #: 170599501
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date: All analyses to be submitted on a 5-day TAT unless otherwise stated (see below)
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ 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:
CC: Lesmail@Langan.com ; Datamanagment@Langan.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs, SVOCs	TCL Pesticides	TAL Metals	TCN	Hex/Trichromium	PFAS	1,4-dioxane	Herbs, PCBs	Total Bottle	Sample Specific Comments
03526-01	EP19-1	11/17/21	1300	S	AR	X	X	X	X	X	X	X	X		
02	EPSW01-6.5	11/17/21	1310	S	AR	X	X	X	X	X	X	X	X		RUSH 2DAY TAT *
03	EPSW06-6.5	11/17/21	1320	S	AR	X	X	X	X	X	X	X	X		RUSH 2Day TAT *
04	DUP05-111721	11/17/21		S	AR	X	X	X	X	X	X	X	X		
05	FB05-111721	11/17/21	1330	AQ	AR	X	X	X	X	X	X	X	X		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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														
Preservative														

Relinquished By:	Date/Time	Received By:	Date/Time
Ali Reza (Langan)	11/17/21 1702		11/17/21 1709
	11/17/21 1545		11/17/21 20:30
	11/18/21 0245		11/18/21 0041
			11/18/21 0245

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2163893
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Kimberly Semon
Phone:	(212) 479-5486
Project Name:	1607 SURF AVENUE
Project Number:	170599501
Report Date:	12/06/21

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163893
Report Date: 12/06/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2163893-01	EP18_1	SOIL	BROOKLYN, NY	11/18/21 14:18	11/18/21
L2163893-02	EP17_1	SOIL	BROOKLYN, NY	11/18/21 14:27	11/18/21

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2163893
Project Number:	170599501	**Report Date:**	12/06/21

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:	1607 SURF AVENUE	**Lab Number:**	L2163893
Project Number:	170599501	**Report Date:**	12/06/21

Case Narrative (continued)

Report Submission

December 06, 2021: This final report includes the results of all requested analyses.

November 30, 2021: This is a preliminary report.

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

Perfluorinated Alkyl Acids by Isotope Dilution

L2163893-02, WG1574344-1, and WG1574344-2: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.
The Extracted Internal Standard recovery for the WG1574344-1 Method Blank, associated with L2163893-01 and -02, is below the acceptance criteria for perfluoro[13c8]octanesulfonamide (m8fosa) (less than 10%); however, the method blank is non-detect for all associated target analytes; therefore, no further action was taken.

Total Metals

L2163893-01 and -02: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

Cyanide, Total

The WG1575475-2/-3 LCS/LCSD recoveries for cyanide, total (57%/66%), associated with L2163893-01 and -02, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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: Kelly Stenstrom

Title: Technical Director/Representative Date: 12/06/21

ORGANICS

VOLATILES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-01
Client ID: EP18_1
Sample Location: BROOKLYN, NY

Date Collected: 11/18/21 14:18
Date Received: 11/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/30/21 13:49
Analyst: MKS
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.9	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.59	0.23	1
Chlorobenzene	ND		ug/kg	0.59	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.82	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.59	0.20	1
Bromodichloromethane	ND		ug/kg	0.59	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.59	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.59	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.59	0.19	1
Bromoform	ND		ug/kg	4.8	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.59	0.20	1
Benzene	ND		ug/kg	0.59	0.20	1
Toluene	ND		ug/kg	1.2	0.64	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.69	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.54	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163893

Project Number: 170599501 **Report Date:** 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-01 Date Collected: 11/18/21 14:18

Client ID: EP18_1 Date Received: 11/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.59	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.66	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.7	1
Carbon disulfide	ND		ug/kg	12	5.4	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.59	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.8	0.77	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163893

Project Number: 170599501 **Report Date:** 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-01 Date Collected: 11/18/21 14:18

Client ID: EP18_1 Date Received: 11/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	95	42.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.46	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-02
Client ID: EP17_1
Sample Location: BROOKLYN, NY

Date Collected: 11/18/21 14:27
Date Received: 11/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/30/21 12:04
Analyst: MKS
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	0.99	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.99	0.23	1
1,2-Dichloropropane	ND		ug/kg	0.99	0.12	1
Dibromochloromethane	ND		ug/kg	0.99	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.99	0.26	1
Tetrachloroethene	0.59		ug/kg	0.50	0.19	1
Chlorobenzene	ND		ug/kg	0.50	0.12	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.16	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	ND		ug/kg	0.50	0.16	1
Toluene	ND		ug/kg	0.99	0.54	1
Ethylbenzene	ND		ug/kg	0.99	0.14	1
Chloromethane	ND		ug/kg	4.0	0.92	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	0.99	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163893

Project Number: 170599501 **Report Date:** 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-02 Date Collected: 11/18/21 14:27

Client ID: EP17_1 Date Received: 11/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	0.99	0.29	1
Xylenes, Total	ND		ug/kg	0.99	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.99	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	0.99	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.91	1
Acetone	ND		ug/kg	9.9	4.8	1
Carbon disulfide	ND		ug/kg	9.9	4.5	1
2-Butanone	ND		ug/kg	9.9	2.2	1
Vinyl acetate	ND		ug/kg	9.9	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.12	1
2-Hexanone	ND		ug/kg	9.9	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.99	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	0.99	0.16	1
sec-Butylbenzene	ND		ug/kg	0.99	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.99	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	0.99	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.11	1
Naphthalene	ND		ug/kg	4.0	0.64	1
Acrylonitrile	ND		ug/kg	4.0	1.1	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163893

Project Number: 170599501 **Report Date:** 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-02 Date Collected: 11/18/21 14:27

Client ID: EP17_1 Date Received: 11/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.99	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	79	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	102		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/30/21 09:27
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1577279-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/30/21 09:27
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1577279-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/30/21 09:27
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1577279-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163893
Report Date: 12/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1577279-3 WG1577279-4								
Methylene chloride	93		83		70-130	11		30
1,1-Dichloroethane	96		84		70-130	13		30
Chloroform	97		86		70-130	12		30
Carbon tetrachloride	100		84		70-130	17		30
1,2-Dichloropropane	97		86		70-130	12		30
Dibromochloromethane	95		83		70-130	13		30
1,1,2-Trichloroethane	111		95		70-130	16		30
Tetrachloroethene	109		94		70-130	15		30
Chlorobenzene	102		92		70-130	10		30
Trichlorofluoromethane	110		91		70-139	19		30
1,2-Dichloroethane	91		79		70-130	14		30
1,1,1-Trichloroethane	101		88		70-130	14		30
Bromodichloromethane	103		90		70-130	13		30
trans-1,3-Dichloropropene	104		91		70-130	13		30
cis-1,3-Dichloropropene	99		87		70-130	13		30
1,1-Dichloropropene	109		92		70-130	17		30
Bromoform	100		86		70-130	15		30
1,1,2,2-Tetrachloroethane	113		96		70-130	16		30
Benzene	102		90		70-130	13		30
Toluene	105		93		70-130	12		30
Ethylbenzene	110		97		70-130	13		30
Chloromethane	78		70		52-130	11		30
Bromomethane	103		93		57-147	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163893

Report Date: 12/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1577279-3 WG1577279-4								
Vinyl chloride	88		75		67-130	16		30
Chloroethane	126		110		50-151	14		30
1,1-Dichloroethene	96		84		65-135	13		30
trans-1,2-Dichloroethene	100		86		70-130	15		30
Trichloroethene	99		87		70-130	13		30
1,2-Dichlorobenzene	103		91		70-130	12		30
1,3-Dichlorobenzene	104		93		70-130	11		30
1,4-Dichlorobenzene	101		90		70-130	12		30
Methyl tert butyl ether	109		90		66-130	19		30
p/m-Xylene	110		98		70-130	12		30
o-Xylene	111		97		70-130	13		30
cis-1,2-Dichloroethene	97		86		70-130	12		30
Dibromomethane	96		82		70-130	16		30
Styrene	113		101		70-130	11		30
Dichlorodifluoromethane	77		61		30-146	23		30
Acetone	88		69		54-140	24		30
Carbon disulfide	92		83		59-130	10		30
2-Butanone	77		**62**	Q	70-130	22		30
Vinyl acetate	92		77		70-130	18		30
4-Methyl-2-pentanone	88		71		70-130	21		30
1,2,3-Trichloropropane	113		93		68-130	19		30
2-Hexanone	82		**69**	Q	70-130	17		30
Bromochloromethane	92		81		70-130	13		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163893

Report Date: 12/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1577279-3 WG1577279-4								
2,2-Dichloropropane	106		91		70-130	15		30
1,2-Dibromoethane	100		84		70-130	17		30
1,3-Dichloropropane	112		96		69-130	15		30
1,1,1,2-Tetrachloroethane	108		95		70-130	13		30
Bromobenzene	104		92		70-130	12		30
n-Butylbenzene	117		100		70-130	16		30
sec-Butylbenzene	112		96		70-130	15		30
tert-Butylbenzene	109		95		70-130	14		30
o-Chlorotoluene	109		97		70-130	12		30
p-Chlorotoluene	110		97		70-130	13		30
1,2-Dibromo-3-chloropropane	91		73		68-130	22		30
Hexachlorobutadiene	118		102		67-130	15		30
Isopropylbenzene	111		98		70-130	12		30
p-Isopropyltoluene	112		97		70-130	14		30
Naphthalene	107		90		70-130	17		30
Acrylonitrile	96		77		70-130	22		30
n-Propylbenzene	115		100		70-130	14		30
1,2,3-Trichlorobenzene	111		96		70-130	14		30
1,2,4-Trichlorobenzene	113		98		70-130	14		30
1,3,5-Trimethylbenzene	111		98		70-130	12		30
1,2,4-Trimethylbenzene	111		98		70-130	12		30
1,4-Dioxane	76		85		65-136	11		30
p-Diethylbenzene	113		98		70-130	14		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163893

Report Date: 12/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1577279-3 WG1577279-4								
p-Ethyltoluene	113		98		70-130	14		30
1,2,4,5-Tetramethylbenzene	109		95		70-130	14		30
Ethyl ether	121		102		67-130	17		30
trans-1,4-Dichloro-2-butene	111		94		70-130	17		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		93		70-130
Toluene-d8	106		106		70-130
4-Bromofluorobenzene	104		104		70-130
Dibromofluoromethane	94		94		70-130

SEMIVOLATILES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-01
Client ID: EP18_1
Sample Location: BROOKLYN, NY

Date Collected: 11/18/21 14:18
Date Received: 11/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/27/21 14:09
Analyst: JRW
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 11/26/21 20:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	270		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163893

Project Number: 170599501 **Report Date:** 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-01 Date Collected: 11/18/21 14:18

Client ID: EP18_1 Date Received: 11/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	140		ug/kg	100	19.	1
Benzo(a)pyrene	150		ug/kg	140	42.	1
Benzo(b)fluoranthene	190		ug/kg	100	29.	1
Benzo(k)fluoranthene	57	J	ug/kg	100	27.	1
Chrysene	140		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	110	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	120		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	25	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	140		ug/kg	140	24.	1
Pyrene	260		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 1607 SURF AVENUE
Lab Number: L2163893
Project Number: 170599501
Report Date: 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-01
Client ID: EP18_1
Sample Location: BROOKLYN, NY
Date Collected: 11/18/21 14:18
Date Received: 11/18/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	80		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-01
Client ID: EP18_1
Sample Location: BROOKLYN, NY

Date Collected: 11/18/21 14:18
Date Received: 11/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/05/21 01:04
Analyst: SG
Percent Solids: 95%

Extraction Method: ALPHA 23528
Extraction Date: 11/22/21 10:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.462	0.021	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.462	0.043	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.231	0.036	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.462	0.049	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.231	0.042	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.231	0.056	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.231	0.039	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.462	0.166	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.462	0.126	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.231	0.069	1
Perfluorooctanesulfonic Acid (PFOS)	0.173	J	ng/g	0.231	0.120	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.231	0.062	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.462	0.265	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.462	0.186	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.462	0.043	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.462	0.141	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.462	0.091	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.462	0.078	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.462	0.065	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.462	0.189	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.462	0.050	1
PFOA/PFOS, Total	0.173	J	ng/g	0.231	0.039	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163893

Project Number: 170599501 **Report Date:** 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-01 Date Collected: 11/18/21 14:18

Client ID: EP18_1 Date Received: 11/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	105		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	98		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	100		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	94		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	109		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	105		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	43		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	105		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	79		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	46		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	77		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	58		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-02
Client ID: EP17_1
Sample Location: BROOKLYN, NY

Date Collected: 11/18/21 14:27
Date Received: 11/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/27/21 16:03
Analyst: JRW
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 11/26/21 20:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163893

Project Number: 170599501 **Report Date:** 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-02 Date Collected: 11/18/21 14:27

Client ID: EP17_1 Date Received: 11/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	390	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 1607 SURF AVENUE
Lab Number: L2163893
Project Number: 170599501
Report Date: 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-02
Client ID: EP17_1
Sample Location: BROOKLYN, NY
Date Collected: 11/18/21 14:27
Date Received: 11/18/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	39		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	55		10-136
4-Terphenyl-d14	73		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-02
Client ID: EP17_1
Sample Location: BROOKLYN, NY

Date Collected: 11/18/21 14:27
Date Received: 11/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/05/21 01:21
Analyst: SG
Percent Solids: 92%

Extraction Method: ALPHA 23528
Extraction Date: 11/22/21 10:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.491	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.491	0.045	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.245	0.038	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.491	0.052	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.245	0.044	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.245	0.059	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.245	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.491	0.176	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.491	0.134	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.245	0.074	1
Perfluorooctanesulfonic Acid (PFOS)	0.302		ng/g	0.245	0.128	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.245	0.066	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.491	0.282	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.491	0.198	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.491	0.046	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.491	0.150	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.491	0.096	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.491	0.083	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.491	0.069	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.491	0.201	1
Perfluorotetradecanoic Acid (PFTA)	0.054	J	ng/g	0.491	0.053	1
PFOA/PFOS, Total	0.302		ng/g	0.245	0.041	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163893

Project Number: 170599501 **Report Date:** 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-02 Date Collected: 11/18/21 14:27

Client ID: EP17_1 Date Received: 11/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	93		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	91		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	101		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	94		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	97		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	103		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**174**	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**182**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	108		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	96		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	30		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	112		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	73		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	52		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/01/21 23:29
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 11/22/21 10:06

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-02 Batch: WG1574344-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/01/21 23:29
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 11/22/21 10:06

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-02 Batch: WG1574344-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	96		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	129		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	86		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	110		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**188**	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	113		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	107		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**200**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**144**	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	109		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**8**	Q	10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**142**	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	91		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	78		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/02/21 12:51
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 11/22/21 10:06

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-02 Batch: WG1574344-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	98		10-117

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/27/21 11:53
Analyst: JRW

Extraction Method: EPA 3546
Extraction Date: 11/26/21 20:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1576170-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/27/21 11:53
Analyst: JRW

Extraction Method: EPA 3546
Extraction Date: 11/26/21 20:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1576170-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/27/21 11:53
Analyst: JRW

Extraction Method: EPA 3546
Extraction Date: 11/26/21 20:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1576170-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	95		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163893
Report Date: 12/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02 Batch: WG1574344-2								
Perfluorobutanoic Acid (PFBA)	92		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	93		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	92		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	92		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	94		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	98		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	94		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	103		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	85		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	96		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	98		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	95		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	68		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	85		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	104		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	95		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	69		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	99		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	94		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	101		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	90		-		69-133	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163893

Report Date: 12/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02 Batch: WG1574344-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	103				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	133				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	93				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	100				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	103				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	105				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**195**	Q			20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	110				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	99				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**280**	Q			19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**156**	Q			31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	108				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	11				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**139**	Q			34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	98				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	85				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163893

Report Date: 12/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab	Associated sample(s): 01-02		Batch: WG1574344-2					
Perfluorooctanesulfonamide (FOSA)	110		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	97				10-117

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163893

Report Date: 12/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1576170-2 WG1576170-3								
Acenaphthene	80		78		31-137	3		50
1,2,4-Trichlorobenzene	72		73		38-107	1		50
Hexachlorobenzene	98		91		40-140	7		50
Bis(2-chloroethyl)ether	60		62		40-140	3		50
2-Chloronaphthalene	84		80		40-140	5		50
1,2-Dichlorobenzene	67		71		40-140	6		50
1,3-Dichlorobenzene	65		70		40-140	7		50
1,4-Dichlorobenzene	66		70		28-104	6		50
3,3'-Dichlorobenzidine	57		54		40-140	5		50
2,4-Dinitrotoluene	97		90		40-132	7		50
2,6-Dinitrotoluene	96		90		40-140	6		50
Fluoranthene	91		86		40-140	6		50
4-Chlorophenyl phenyl ether	85		81		40-140	5		50
4-Bromophenyl phenyl ether	94		89		40-140	5		50
Bis(2-chloroisopropyl)ether	59		61		40-140	3		50
Bis(2-chloroethoxy)methane	66		65		40-117	2		50
Hexachlorobutadiene	83		82		40-140	1		50
Hexachlorocyclopentadiene	70		68		40-140	3		50
Hexachloroethane	66		69		40-140	4		50
Isophorone	71		70		40-140	1		50
Naphthalene	75		74		40-140	1		50
Nitrobenzene	70		71		40-140	1		50
NDPA/DPA	88		84		36-157	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163893

Report Date: 12/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1576170-2 WG1576170-3								
n-Nitrosodi-n-propylamine	69		68		32-121	1		50
Bis(2-ethylhexyl)phthalate	85		79		40-140	7		50
Butyl benzyl phthalate	91		86		40-140	6		50
Di-n-butylphthalate	87		81		40-140	7		50
Di-n-octylphthalate	84		79		40-140	6		50
Diethyl phthalate	87		81		40-140	7		50
Dimethyl phthalate	89		85		40-140	5		50
Benzo(a)anthracene	84		78		40-140	7		50
Benzo(a)pyrene	86		82		40-140	5		50
Benzo(b)fluoranthene	91		86		40-140	6		50
Benzo(k)fluoranthene	92		87		40-140	6		50
Chrysene	84		79		40-140	6		50
Acenaphthylene	83		80		40-140	4		50
Anthracene	85		81		40-140	5		50
Benzo(ghi)perylene	98		92		40-140	6		50
Fluorene	87		83		40-140	5		50
Phenanthrene	82		78		40-140	5		50
Dibenzo(a,h)anthracene	98		92		40-140	6		50
Indeno(1,2,3-cd)pyrene	91		85		40-140	7		50
Pyrene	89		85		35-142	5		50
Biphenyl	87		84		37-127	4		50
4-Chloroaniline	77		77		40-140	0		50
2-Nitroaniline	94		90		47-134	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163893

Report Date: 12/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1576170-2 WG1576170-3								
3-Nitroaniline	68		66		26-129	3		50
4-Nitroaniline	87		84		41-125	4		50
Dibenzofuran	82		79		40-140	4		50
2-Methylnaphthalene	81		78		40-140	4		50
1,2,4,5-Tetrachlorobenzene	91		88		40-117	3		50
Acetophenone	75		74		14-144	1		50
2,4,6-Trichlorophenol	98		94		30-130	4		50
p-Chloro-m-cresol	92		89		26-103	3		50
2-Chlorophenol	74		75		25-102	1		50
2,4-Dichlorophenol	86		84		30-130	2		50
2,4-Dimethylphenol	77		76		30-130	1		50
2-Nitrophenol	80		80		30-130	0		50
4-Nitrophenol	91		88		11-114	3		50
2,4-Dinitrophenol	71		67		4-130	6		50
4,6-Dinitro-o-cresol	100		94		10-130	6		50
Pentachlorophenol	86		79		17-109	8		50
Phenol	70		71		26-90	1		50
2-Methylphenol	74		74		30-130.	0		50
3-Methylphenol/4-Methylphenol	84		81		30-130	4		50
2,4,5-Trichlorophenol	97		91		30-130	6		50
Benzoic Acid	29		32		10-110	10		50
Benzyl Alcohol	76		77		40-140	1		50
Carbazole	88		83		54-128	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163893

Report Date: 12/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1576170-2 WG1576170-3								
1,4-Dioxane	**34**	Q	40		40-140	16		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	71		75		25-120
Phenol-d6	79		79		10-120
Nitrobenzene-d5	74		75		23-120
2-Fluorobiphenyl	85		83		30-120
2,4,6-Tribromophenol	104		99		10-136
4-Terphenyl-d14	97		92		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163893

Report Date: 12/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1574344-3 WG1574344-4 QC Sample: L2163081-01 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	5.29	5.07	96		4.90	95		71-135	3		30
Perfluoropentanoic Acid (PFPeA)	ND	5.29	5.06	96		4.85	94		69-132	4		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.7	4.47	95		4.36	95		72-128	2		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	4.95	4.93	100		4.77	99		62-145	3		30
Perfluorohexanoic Acid (PFHxA)	ND	5.29	4.92	93		4.83	94		70-132	2		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	4.97	4.19	84		4.58	95		73-123	9		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.29	5.00	95		5.08	99		71-131	2		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.83	4.64	96		5.02	107		67-130	8		30
Perfluorooctanoic Acid (PFOA)	ND	5.29	4.95	94		4.97	96		69-133	0		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.03	5.42	108		5.02	102		64-140	8		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.03	4.67	93		4.50	92		70-132	4		30
Perfluorononanoic Acid (PFNA)	ND	5.29	5.10	96		5.11	99		72-129	0		30
Perfluorooctanesulfonic Acid (PFOS)	ND	4.91	5.16	105		4.89	102		68-136	5		30
Perfluorodecanoic Acid (PFDA)	ND	5.29	5.42	102		5.45	106		69-133	1		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.08	3.03	**60**	Q	3.91	79		65-137	25		30
Perfluorononanesulfonic Acid (PFNS)	ND	5.09	4.53	89		4.86	98		69-125	7		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.29	5.78	109		5.07	98		63-144	13		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.29	5.16	98		4.84	94		64-136	6		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.1	5.59	110		5.10	103		59-134	9		30
Perfluorooctanesulfonamide (FOSA)	ND	5.29	5.81F	110		5.12F	99		67-137	13		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.29	5.88	111		5.47F	106		61-139	7		30
Perfluorododecanoic Acid (PFDoA)	ND	5.29	4.97	94		4.73	92		69-135	5		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163893

Report Date: 12/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1574344-3 WG1574344-4 QC Sample: L2163081-01 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	5.29	5.93	112		5.54	107		66-139	7		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.29	5.06	96		5.30	103		69-133	5		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**287**	Q	**255**	Q	19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	152		**171**	Q	14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**171**	Q	**192**	Q	20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	104		120		34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	112		128		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103		114		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92		97		75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	84		94		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	91		101		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		99		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	90		95		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	71		78		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	95		103		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	122		133		58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	11		44		10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	94		105		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	94		104		75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		114		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	89		98		74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163893

Report Date: 12/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1574344-5 WG1574344-6 QC Sample: L2163081-02 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	4.65	4.45	96		4.48	96		71-135	1		30
Perfluoropentanoic Acid (PFPeA)	ND	4.65	4.34	93		4.44	95		69-132	2		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.13	4.00	97		3.86	93		72-128	4		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	4.35	4.34	100		4.18	96		62-145	4		30
Perfluorohexanoic Acid (PFHxA)	ND	4.65	4.43	95		4.42	95		70-132	0		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	4.37	3.82	87		3.78	86		73-123	1		30
Perfluoroheptanoic Acid (PFHpA)	ND	4.65	4.28	92		4.55	98		71-131	6		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.25	4.23	100		4.16	98		67-130	2		30
Perfluorooctanoic Acid (PFOA)	ND	4.65	4.56	98		4.09	88		69-133	11		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.43	4.29	97		4.64	105		64-140	8		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.43	3.91	88		4.00	90		70-132	2		30
Perfluorononanoic Acid (PFNA)	ND	4.65	4.38	94		4.78	103		72-129	9		30
Perfluorooctanesulfonic Acid (PFOS)	0.150J	4.32	4.40	98		4.74	106		68-136	7		30
Perfluorodecanoic Acid (PFDA)	ND	4.65	4.58	98		5.05	109		69-133	10		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.47	3.29	74		3.58	80		65-137	8		30
Perfluorononanesulfonic Acid (PFNS)	ND	4.48	4.08	91		4.39	98		69-125	7		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	4.65	4.26	92		4.38	94		63-144	3		30
Perfluoroundecanoic Acid (PFUnA)	ND	4.65	4.58	98		4.66	100		64-136	2		30
Perfluorodecanesulfonic Acid (PFDS)	ND	4.48	4.37	97		4.71	105		59-134	7		30
Perfluorooctanesulfonamide (FOSA)	ND	4.65	4.49	97		4.25	91		67-137	5		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	4.65	4.30	92		4.74	102		61-139	10		30
Perfluorododecanoic Acid (PFDoA)	ND	4.65	4.60	99		4.54	98		69-135	1		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163893
Report Date: 12/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1574344-5 WG1574344-6 QC Sample: L2163081-02 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	4.65	5.07	109		5.70	123		66-139	12		30
Perfluorotetradecanoic Acid (PFTA)	ND	4.65	3.78	81		4.22	91		69-133	11		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**246**	Q	**236**	Q	19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	136		156		14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**164**	Q	**184**	Q	20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	108		121		34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	118		121		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	120		117		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	104		103		75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	97		97		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	106		104		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	111		108		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93		97		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	101		97		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	107		108		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	141		140		58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	63		67		10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	116		104		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		109		75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	110		108		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	103		102		74-139

PCBS

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-01
Client ID: EP18_1
Sample Location: BROOKLYN, NY

Date Collected: 11/18/21 14:18
Date Received: 11/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/27/21 13:18
Analyst: WR
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 11/26/21 16:36
Cleanup Method: EPA 3665A
Cleanup Date: 11/27/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.6	2.98	1	A
Aroclor 1221	ND		ug/kg	33.6	3.37	1	A
Aroclor 1232	ND		ug/kg	33.6	7.12	1	A
Aroclor 1242	ND		ug/kg	33.6	4.53	1	A
Aroclor 1248	ND		ug/kg	33.6	5.04	1	A
Aroclor 1254	ND		ug/kg	33.6	3.68	1	A
Aroclor 1260	ND		ug/kg	33.6	6.21	1	A
Aroclor 1262	ND		ug/kg	33.6	4.27	1	A
Aroclor 1268	ND		ug/kg	33.6	3.48	1	A
PCBs, Total	ND		ug/kg	33.6	2.98	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-02
Client ID: EP17_1
Sample Location: BROOKLYN, NY

Date Collected: 11/18/21 14:27
Date Received: 11/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/27/21 13:25
Analyst: WR
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 11/26/21 16:36
Cleanup Method: EPA 3665A
Cleanup Date: 11/27/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.9	3.10	1	A
Aroclor 1221	ND		ug/kg	34.9	3.50	1	A
Aroclor 1232	ND		ug/kg	34.9	7.40	1	A
Aroclor 1242	ND		ug/kg	34.9	4.71	1	A
Aroclor 1248	ND		ug/kg	34.9	5.24	1	A
Aroclor 1254	ND		ug/kg	34.9	3.82	1	A
Aroclor 1260	ND		ug/kg	34.9	6.45	1	A
Aroclor 1262	ND		ug/kg	34.9	4.43	1	A
Aroclor 1268	ND		ug/kg	34.9	3.62	1	A
PCBs, Total	ND		ug/kg	34.9	3.10	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	34		30-150	A
Decachlorobiphenyl	31		30-150	A
2,4,5,6-Tetrachloro-m-xylene	33		30-150	B
Decachlorobiphenyl	**28**	Q	30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 11/27/21 12:07
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 11/26/21 16:36
Cleanup Method: EPA 3665A
Cleanup Date: 11/27/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1576130-1						
Aroclor 1016	ND		ug/kg	31.3	2.78	A
Aroclor 1221	ND		ug/kg	31.3	3.14	A
Aroclor 1232	ND		ug/kg	31.3	6.63	A
Aroclor 1242	ND		ug/kg	31.3	4.22	A
Aroclor 1248	ND		ug/kg	31.3	4.69	A
Aroclor 1254	ND		ug/kg	31.3	3.42	A
Aroclor 1260	ND		ug/kg	31.3	5.78	A
Aroclor 1262	ND		ug/kg	31.3	3.97	A
Aroclor 1268	ND		ug/kg	31.3	3.24	A
PCBs, Total	ND		ug/kg	31.3	2.78	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	57		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163893
Report Date: 12/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1576130-2 WG1576130-3									
Aroclor 1016	69		74		40-140	7		50	A
Aroclor 1260	65		69		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		69		30-150	A
Decachlorobiphenyl	68		71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		66		30-150	B
Decachlorobiphenyl	62		61		30-150	B

PESTICIDES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-01
Client ID: EP18_1
Sample Location: BROOKLYN, NY

Date Collected: 11/18/21 14:18
Date Received: 11/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/27/21 15:36
Analyst: JAW
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 11/26/21 17:55
Cleanup Method: EPA 3620B
Cleanup Date: 11/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.63	0.320	1	A
Lindane	ND		ug/kg	0.681	0.304	1	A
Alpha-BHC	ND		ug/kg	0.681	0.193	1	A
Beta-BHC	ND		ug/kg	1.63	0.619	1	A
Heptachlor	ND		ug/kg	0.817	0.366	1	A
Aldrin	ND		ug/kg	1.63	0.575	1	A
Heptachlor epoxide	ND		ug/kg	3.06	0.919	1	A
Endrin	ND		ug/kg	0.681	0.279	1	A
Endrin aldehyde	ND		ug/kg	2.04	0.715	1	A
Endrin ketone	ND		ug/kg	1.63	0.421	1	A
Dieldrin	ND		ug/kg	1.02	0.510	1	A
4,4'-DDE	ND		ug/kg	1.63	0.378	1	A
4,4'-DDD	ND		ug/kg	1.63	0.583	1	A
4,4'-DDT	ND		ug/kg	3.06	1.31	1	A
Endosulfan I	ND		ug/kg	1.63	0.386	1	A
Endosulfan II	ND		ug/kg	1.63	0.546	1	A
Endosulfan sulfate	ND		ug/kg	0.681	0.324	1	A
Methoxychlor	ND		ug/kg	3.06	0.953	1	A
Toxaphene	ND		ug/kg	30.6	8.58	1	A
cis-Chlordane	ND		ug/kg	2.04	0.569	1	A
trans-Chlordane	ND		ug/kg	2.04	0.539	1	A
Chlordane	ND		ug/kg	13.6	5.41	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2163893

Project Number: 170599501 **Report Date:** 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-01 Date Collected: 11/18/21 14:18

Client ID: EP18_1 Date Received: 11/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2163893
Project Number: 170599501
Report Date: 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-01
Client ID: EP18_1
Sample Location: BROOKLYN, NY

Date Collected: 11/18/21 14:18
Date Received: 11/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/25/21 12:25
Analyst: EJL
Percent Solids: 95%
Methylation Date: 11/25/21 06:14

Extraction Method: EPA 8151A
Extraction Date: 11/24/21 01:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	174	10.9	1	A
2,4,5-T	ND		ug/kg	174	5.38	1	A
2,4,5-TP (Silvex)	ND		ug/kg	174	4.62	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	98		30-150	A
DCAA	83		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-02
Client ID: EP17_1
Sample Location: BROOKLYN, NY

Date Collected: 11/18/21 14:27
Date Received: 11/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/27/21 15:47
Analyst: JAW
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 11/26/21 17:55
Cleanup Method: EPA 3620B
Cleanup Date: 11/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.64	0.321	1	A
Lindane	ND		ug/kg	0.683	0.305	1	A
Alpha-BHC	ND		ug/kg	0.683	0.194	1	A
Beta-BHC	ND		ug/kg	1.64	0.622	1	A
Heptachlor	ND		ug/kg	0.820	0.367	1	A
Aldrin	ND		ug/kg	1.64	0.577	1	A
Heptachlor epoxide	ND		ug/kg	3.07	0.922	1	A
Endrin	ND		ug/kg	0.683	0.280	1	A
Endrin aldehyde	ND		ug/kg	2.05	0.717	1	A
Endrin ketone	ND		ug/kg	1.64	0.422	1	A
Dieldrin	ND		ug/kg	1.02	0.512	1	A
4,4'-DDE	ND		ug/kg	1.64	0.379	1	A
4,4'-DDD	ND		ug/kg	1.64	0.585	1	A
4,4'-DDT	ND		ug/kg	3.07	1.32	1	A
Endosulfan I	ND		ug/kg	1.64	0.387	1	A
Endosulfan II	ND		ug/kg	1.64	0.548	1	A
Endosulfan sulfate	ND		ug/kg	0.683	0.325	1	A
Methoxychlor	ND		ug/kg	3.07	0.956	1	A
Toxaphene	ND		ug/kg	30.7	8.60	1	A
cis-Chlordane	ND		ug/kg	2.05	0.571	1	A
trans-Chlordane	ND		ug/kg	2.05	0.541	1	A
Chlordane	ND		ug/kg	13.6	5.43	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2163893

Project Number: 170599501 **Report Date:** 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-02 Date Collected: 11/18/21 14:27

Client ID: EP17_1 Date Received: 11/18/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2163893
Project Number: 170599501
Report Date: 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-02
Client ID: EP17_1
Sample Location: BROOKLYN, NY

Date Collected: 11/18/21 14:27
Date Received: 11/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/25/21 13:01
Analyst: EJL
Percent Solids: 92%
Methylation Date: 11/25/21 06:14

Extraction Method: EPA 8151A
Extraction Date: 11/24/21 01:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	177	11.2	1	A
2,4,5-T	ND		ug/kg	177	5.50	1	A
2,4,5-TP (Silvex)	ND		ug/kg	177	4.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	95		30-150	A
DCAA	88		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 11/25/21 09:42
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 11/24/21 01:18

Methylation Date: 11/25/21 06:14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1575345-1						
2,4-D	ND		ug/kg	164	10.3	A
2,4,5-T	ND		ug/kg	164	5.09	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.37	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	91		30-150	A
DCAA	86		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/27/21 17:05
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 11/26/21 17:55
Cleanup Method: EPA 3620B
Cleanup Date: 11/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1576146-1						
Delta-BHC	ND		ug/kg	1.51	0.296	A
Lindane	ND		ug/kg	0.630	0.282	A
Alpha-BHC	ND		ug/kg	0.630	0.179	A
Beta-BHC	ND		ug/kg	1.51	0.573	A
Heptachlor	ND		ug/kg	0.756	0.339	A
Aldrin	ND		ug/kg	1.51	0.532	A
Heptachlor epoxide	ND		ug/kg	2.84	0.851	A
Endrin	ND		ug/kg	0.630	0.258	A
Endrin aldehyde	ND		ug/kg	1.89	0.662	A
Endrin ketone	ND		ug/kg	1.51	0.389	A
Dieldrin	ND		ug/kg	0.945	0.472	A
4,4'-DDE	ND		ug/kg	1.51	0.350	A
4,4'-DDD	ND		ug/kg	1.51	0.539	A
4,4'-DDT	ND		ug/kg	2.84	1.22	A
Endosulfan I	ND		ug/kg	1.51	0.357	A
Endosulfan II	ND		ug/kg	1.51	0.505	A
Endosulfan sulfate	ND		ug/kg	0.630	0.300	A
Methoxychlor	ND		ug/kg	2.84	0.882	A
Toxaphene	ND		ug/kg	28.4	7.94	A
cis-Chlordane	ND		ug/kg	1.89	0.527	A
trans-Chlordane	ND		ug/kg	1.89	0.499	A
Chlordane	ND		ug/kg	12.6	5.01	A

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/27/21 17:05
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 11/26/21 17:55
Cleanup Method: EPA 3620B
Cleanup Date: 11/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1576146-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	66		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163893
Report Date: 12/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1575345-2 WG1575345-3									
2,4-D	91		84		30-150	8		30	A
2,4,5-T	92		85		30-150	8		30	A
2,4,5-TP (Silvex)	95		87		30-150	9		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	99		91		30-150	A
DCAA	92		84		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163893

Report Date: 12/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1576146-2 WG1576146-3									
Delta-BHC	78		82		30-150	5		30	A
Lindane	93		88		30-150	6		30	A
Alpha-BHC	75		72		30-150	4		30	A
Beta-BHC	92		85		30-150	8		30	A
Heptachlor	93		95		30-150	2		30	A
Aldrin	82		90		30-150	9		30	A
Heptachlor epoxide	73		80		30-150	9		30	A
Endrin	91		95		30-150	4		30	A
Endrin aldehyde	52		54		30-150	4		30	A
Endrin ketone	75		83		30-150	10		30	A
Dieldrin	93		97		30-150	4		30	A
4,4'-DDE	80		85		30-150	6		30	A
4,4'-DDD	104		110		30-150	6		30	A
4,4'-DDT	95		100		30-150	5		30	A
Endosulfan I	78		81		30-150	4		30	A
Endosulfan II	89		95		30-150	7		30	A
Endosulfan sulfate	79		86		30-150	8		30	A
Methoxychlor	92		103		30-150	11		30	A
cis-Chlordane	63		64		30-150	2		30	A
trans-Chlordane	101		99		30-150	2		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163893

Report Date: 12/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1576146-2 WG1576146-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		86		30-150	A
Decachlorobiphenyl	88		101		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		82		30-150	B
Decachlorobiphenyl	88		84		30-150	B

METALS

Project Name: 1607 SURF AVENUE
Lab Number: L2163893
Project Number: 170599501
Report Date: 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-01
Client ID: EP18_1
Sample Location: BROOKLYN, NY
Date Collected: 11/18/21 14:18
Date Received: 11/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	882		mg/kg	7.89	2.13	2	11/23/21 09:00	11/24/21 18:44	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	3.94	0.300	2	11/23/21 09:00	11/24/21 18:44	EPA 3050B	1,6010D	SV
Arsenic, Total	0.497	J	mg/kg	0.789	0.164	2	11/23/21 09:00	11/24/21 18:44	EPA 3050B	1,6010D	SV
Barium, Total	6.10		mg/kg	0.789	0.137	2	11/23/21 09:00	11/24/21 18:44	EPA 3050B	1,6010D	SV
Beryllium, Total	0.032	J	mg/kg	0.394	0.026	2	11/23/21 09:00	11/24/21 18:44	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.789	0.077	2	11/23/21 09:00	11/24/21 18:44	EPA 3050B	1,6010D	SV
Calcium, Total	286		mg/kg	7.89	2.76	2	11/23/21 09:00	11/24/21 18:44	EPA 3050B	1,6010D	SV
Chromium, Total	10.5		mg/kg	0.789	0.076	2	11/23/21 09:00	11/24/21 18:44	EPA 3050B	1,6010D	SV
Cobalt, Total	0.749	J	mg/kg	1.58	0.131	2	11/23/21 09:00	11/24/21 18:44	EPA 3050B	1,6010D	SV
Copper, Total	0.915		mg/kg	0.789	0.203	2	11/23/21 09:00	11/24/21 18:44	EPA 3050B	1,6010D	SV
Iron, Total	1560		mg/kg	3.94	0.712	2	11/23/21 09:00	11/24/21 18:44	EPA 3050B	1,6010D	SV
Lead, Total	2.03	J	mg/kg	3.94	0.211	2	11/23/21 09:00	11/24/21 18:44	EPA 3050B	1,6010D	SV
Magnesium, Total	396		mg/kg	7.89	1.21	2	11/23/21 09:00	11/29/21 20:59	EPA 3050B	1,6010D	BV
Manganese, Total	15.0		mg/kg	0.789	0.125	2	11/23/21 09:00	11/24/21 18:44	EPA 3050B	1,6010D	SV
Mercury, Total	0.069		mg/kg	0.067	0.044	1	11/23/21 10:30	11/23/21 22:03	EPA 7471B	1,7471B	AC
Nickel, Total	5.50		mg/kg	1.97	0.191	2	11/23/21 09:00	11/24/21 18:44	EPA 3050B	1,6010D	SV
Potassium, Total	198		mg/kg	197	11.4	2	11/23/21 09:00	11/29/21 20:59	EPA 3050B	1,6010D	BV
Selenium, Total	ND		mg/kg	1.58	0.203	2	11/23/21 09:00	11/24/21 18:44	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.789	0.223	2	11/23/21 09:00	11/24/21 18:44	EPA 3050B	1,6010D	SV
Sodium, Total	14.2	J	mg/kg	158	2.48	2	11/23/21 09:00	11/24/21 18:44	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.58	0.248	2	11/23/21 09:00	11/24/21 18:44	EPA 3050B	1,6010D	SV
Vanadium, Total	3.08		mg/kg	0.789	0.160	2	11/23/21 09:00	11/24/21 18:44	EPA 3050B	1,6010D	SV
Zinc, Total	11.3		mg/kg	3.94	0.231	2	11/23/21 09:00	11/24/21 18:44	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	10		mg/kg	0.84	0.84	1		11/24/21 18:44	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-02
Client ID: EP17_1
Sample Location: BROOKLYN, NY
Date Collected: 11/18/21 14:27
Date Received: 11/18/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	546		mg/kg	8.42	2.27	2	11/23/21 09:00	11/24/21 18:49	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.21	0.320	2	11/23/21 09:00	11/24/21 18:49	EPA 3050B	1,6010D	SV
Arsenic, Total	0.480	J	mg/kg	0.842	0.175	2	11/23/21 09:00	11/24/21 18:49	EPA 3050B	1,6010D	SV
Barium, Total	2.19		mg/kg	0.842	0.146	2	11/23/21 09:00	11/24/21 18:49	EPA 3050B	1,6010D	SV
Beryllium, Total	0.034	J	mg/kg	0.421	0.028	2	11/23/21 09:00	11/24/21 18:49	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.842	0.083	2	11/23/21 09:00	11/24/21 18:49	EPA 3050B	1,6010D	SV
Calcium, Total	244		mg/kg	8.42	2.95	2	11/23/21 09:00	11/24/21 18:49	EPA 3050B	1,6010D	SV
Chromium, Total	2.25		mg/kg	0.842	0.081	2	11/23/21 09:00	11/24/21 18:49	EPA 3050B	1,6010D	SV
Cobalt, Total	0.404	J	mg/kg	1.68	0.140	2	11/23/21 09:00	11/24/21 18:49	EPA 3050B	1,6010D	SV
Copper, Total	0.699	J	mg/kg	0.842	0.217	2	11/23/21 09:00	11/24/21 18:49	EPA 3050B	1,6010D	SV
Iron, Total	883		mg/kg	4.21	0.760	2	11/23/21 09:00	11/24/21 18:49	EPA 3050B	1,6010D	SV
Lead, Total	1.80	J	mg/kg	4.21	0.226	2	11/23/21 09:00	11/24/21 18:49	EPA 3050B	1,6010D	SV
Magnesium, Total	254		mg/kg	8.42	1.30	2	11/23/21 09:00	11/29/21 21:04	EPA 3050B	1,6010D	BV
Manganese, Total	9.95		mg/kg	0.842	0.134	2	11/23/21 09:00	11/24/21 18:49	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.068	0.044	1	11/23/21 10:30	11/23/21 22:06	EPA 7471B	1,7471B	AC
Nickel, Total	1.16	J	mg/kg	2.10	0.204	2	11/23/21 09:00	11/24/21 18:49	EPA 3050B	1,6010D	SV
Potassium, Total	128	J	mg/kg	210	12.1	2	11/23/21 09:00	11/29/21 21:04	EPA 3050B	1,6010D	BV
Selenium, Total	ND		mg/kg	1.68	0.217	2	11/23/21 09:00	11/24/21 18:49	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.842	0.238	2	11/23/21 09:00	11/24/21 18:49	EPA 3050B	1,6010D	SV
Sodium, Total	270		mg/kg	168	2.65	2	11/23/21 09:00	11/24/21 18:49	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.68	0.265	2	11/23/21 09:00	11/24/21 18:49	EPA 3050B	1,6010D	SV
Vanadium, Total	2.25		mg/kg	0.842	0.171	2	11/23/21 09:00	11/24/21 18:49	EPA 3050B	1,6010D	SV
Zinc, Total	11.2		mg/kg	4.21	0.247	2	11/23/21 09:00	11/24/21 18:49	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.2		mg/kg	0.87	0.87	1		11/24/21 18:49	NA	107,-	

Project Name: 1607 SURF AVENUE **Lab Number:** L2163893

Project Number: 170599501 **Report Date:** 12/06/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1574900-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	11/23/21 09:00	11/24/21 15:55	1,6010D	SV
Antimony, Total	ND		mg/kg	2.00	0.152	1	11/23/21 09:00	11/24/21 15:55	1,6010D	SV
Arsenic, Total	ND		mg/kg	0.400	0.083	1	11/23/21 09:00	11/24/21 15:55	1,6010D	SV
Barium, Total	ND		mg/kg	0.400	0.070	1	11/23/21 09:00	11/24/21 15:55	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.200	0.013	1	11/23/21 09:00	11/24/21 15:55	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.400	0.039	1	11/23/21 09:00	11/24/21 15:55	1,6010D	SV
Calcium, Total	ND		mg/kg	4.00	1.40	1	11/23/21 09:00	11/24/21 15:55	1,6010D	SV
Chromium, Total	ND		mg/kg	0.400	0.038	1	11/23/21 09:00	11/24/21 15:55	1,6010D	SV
Cobalt, Total	ND		mg/kg	0.800	0.066	1	11/23/21 09:00	11/24/21 15:55	1,6010D	SV
Copper, Total	ND		mg/kg	0.400	0.103	1	11/23/21 09:00	11/24/21 15:55	1,6010D	SV
Iron, Total	1.63	J	mg/kg	2.00	0.361	1	11/23/21 09:00	11/24/21 15:55	1,6010D	SV
Lead, Total	ND		mg/kg	2.00	0.107	1	11/23/21 09:00	11/24/21 15:55	1,6010D	SV
Magnesium, Total	ND		mg/kg	4.00	0.616	1	11/23/21 09:00	11/24/21 15:55	1,6010D	SV
Manganese, Total	ND		mg/kg	0.400	0.064	1	11/23/21 09:00	11/24/21 15:55	1,6010D	SV
Nickel, Total	ND		mg/kg	1.00	0.097	1	11/23/21 09:00	11/24/21 15:55	1,6010D	SV
Potassium, Total	ND		mg/kg	100	5.76	1	11/23/21 09:00	11/24/21 15:55	1,6010D	SV
Selenium, Total	ND		mg/kg	0.800	0.103	1	11/23/21 09:00	11/24/21 15:55	1,6010D	SV
Silver, Total	ND		mg/kg	0.400	0.113	1	11/23/21 09:00	11/24/21 15:55	1,6010D	SV
Sodium, Total	38.8	J	mg/kg	80.0	1.26	1	11/23/21 09:00	11/24/21 15:55	1,6010D	SV
Thallium, Total	ND		mg/kg	0.800	0.126	1	11/23/21 09:00	11/24/21 15:55	1,6010D	SV
Vanadium, Total	ND		mg/kg	0.400	0.081	1	11/23/21 09:00	11/24/21 15:55	1,6010D	SV
Zinc, Total	ND		mg/kg	2.00	0.117	1	11/23/21 09:00	11/24/21 15:55	1,6010D	SV

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1574901-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	11/23/21 10:30	11/23/21 21:22	1,7471B	BV

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163893

Report Date: 12/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1574900-2 SRM Lot Number: D109-540								
Aluminum, Total	75		-		50-150	-		
Antimony, Total	141		-		19-250	-		
Arsenic, Total	100		-		70-130	-		
Barium, Total	92		-		75-125	-		
Beryllium, Total	92		-		75-125	-		
Cadmium, Total	90		-		75-125	-		
Calcium, Total	91		-		73-128	-		
Chromium, Total	94		-		70-130	-		
Cobalt, Total	92		-		75-125	-		
Copper, Total	94		-		75-125	-		
Iron, Total	104		-		35-165	-		
Lead, Total	95		-		72-128	-		
Magnesium, Total	88		-		62-138	-		
Manganese, Total	92		-		74-126	-		
Nickel, Total	92		-		70-130	-		
Potassium, Total	89		-		59-141	-		
Selenium, Total	99		-		68-132	-		
Silver, Total	99		-		68-131	-		
Sodium, Total	103		-		35-165	-		
Thallium, Total	92		-		68-131	-		
Vanadium, Total	99		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163893

Report Date: 12/06/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1574900-2 SRM Lot Number: D109-540					
Zinc, Total	96	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1574901-2 SRM Lot Number: D109-540					
Mercury, Total	92	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163893
Report Date: 12/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1574900-3 QC Sample: L2163821-01 Client ID: MS Sample												
Aluminum, Total	5960	202	6260	**149**	Q	-	-		75-125	-		20
Antimony, Total	1.55J	50.4	45.7	91		-	-		75-125	-		20
Arsenic, Total	8.96	12.1	18.3	77		-	-		75-125	-		20
Barium, Total	118	202	302	91		-	-		75-125	-		20
Beryllium, Total	0.410J	5.04	5.23	104		-	-		75-125	-		20
Cadmium, Total	0.500J	5.34	5.25	98		-	-		75-125	-		20
Calcium, Total	14900	1010	8950	**0**	Q	-	-		75-125	-		20
Chromium, Total	15.5	20.2	30.8	76		-	-		75-125	-		20
Cobalt, Total	8.79	50.4	49.8	81		-	-		75-125	-		20
Copper, Total	64.1	25.2	81.2	**68**	Q	-	-		75-125	-		20
Iron, Total	16400	101	13900	**0**	Q	-	-		75-125	-		20
Lead, Total	278	53.4	332	101		-	-		75-125	-		20
Magnesium, Total	4800	1010	3970	**0**	Q	-	-		75-125	-		20
Manganese, Total	304	50.4	223	**0**	Q	-	-		75-125	-		20
Nickel, Total	17.3	50.4	57.9	80		-	-		75-125	-		20
Potassium, Total	1260	1010	1880	**62**	Q	-	-		75-125	-		20
Selenium, Total	1.88J	12.1	12.6	104		-	-		75-125	-		20
Silver, Total	0.320J	30.2	28.6	94		-	-		75-125	-		20
Sodium, Total	245	1010	1250	100		-	-		75-125	-		20
Thallium, Total	ND	12.1	10.2	84		-	-		75-125	-		20
Vanadium, Total	26.0	50.4	67.2	82		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163893
Report Date: 12/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1574900-3 QC Sample: L2163821-01 Client ID: MS Sample										
Zinc, Total	185	50.4	226	81		-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1574901-3 QC Sample: L2163821-01 Client ID: MS Sample										
Mercury, Total	0.618	0.164	2.19	**955**	Q	-	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163893

Report Date: 12/06/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1574900-4 QC Sample: L2163821-01 Client ID: DUP Sample						
Aluminum, Total	5960	5220	mg/kg	13		20
Antimony, Total	1.55J	1.16J	mg/kg	NC		20
Arsenic, Total	8.96	6.68	mg/kg	**29**	Q	20
Barium, Total	118	115	mg/kg	3		20
Beryllium, Total	0.410J	0.351J	mg/kg	NC		20
Cadmium, Total	0.500J	0.471J	mg/kg	NC		20
Calcium, Total	14900	9870	mg/kg	**41**	Q	20
Chromium, Total	15.5	14.1	mg/kg	9		20
Cobalt, Total	8.79	6.79	mg/kg	**26**	Q	20
Copper, Total	64.1	62.1	mg/kg	3		20
Iron, Total	16400	13700	mg/kg	18		20
Lead, Total	278	301	mg/kg	8		20
Magnesium, Total	4800	3070	mg/kg	**44**	Q	20
Manganese, Total	304	206	mg/kg	**38**	Q	20
Nickel, Total	17.3	14.7	mg/kg	16		20
Potassium, Total	1260	1010	mg/kg	**22**	Q	20
Selenium, Total	1.88J	1.50J	mg/kg	NC		20
Silver, Total	0.320J	ND	mg/kg	NC		20
Sodium, Total	245	162J	mg/kg	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163893

Report Date: 12/06/21

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1574900-4 QC Sample: L2163821-01 Client ID: DUP Sample						
Thallium, Total	ND	ND	mg/kg	NC		20
Vanadium, Total	26.0	22.8	mg/kg	13		20
Zinc, Total	185	174	mg/kg	6		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1574901-4 QC Sample: L2163821-01 Client ID: DUP Sample						
Mercury, Total	0.618	3.31	mg/kg	**137**	Q	20

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2163893
Report Date: 12/06/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1574900-6 QC Sample: L2163821-01 Client ID: DUP Sample						
Aluminum, Total	5960	6810	mg/kg	14		20
Barium, Total	118	134	mg/kg	14		20
Calcium, Total	14900	17200	mg/kg	15		20
Copper, Total	64.1	72.2	mg/kg	13		20
Iron, Total	16400	19100	mg/kg	16		20
Lead, Total	278	333	mg/kg	20		20
Magnesium, Total	4800	5740	mg/kg	20		20
Manganese, Total	304	355	mg/kg	17		20
Vanadium, Total	26.0	29.8	mg/kg	15		20
Zinc, Total	185	220	mg/kg	19		20

INORGANICS
&
MISCELLANEOUS

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-01
Client ID: EP18_1
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 11/18/21 14:18
Date Received: 11/18/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.2		%	0.100	NA	1	-	11/20/21 10:06	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.21	1	11/24/21 11:20	11/24/21 16:23	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.840	0.168	1	11/23/21 19:00	11/24/21 13:05	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

SAMPLE RESULTS

Lab ID: L2163893-02
Client ID: EP17_1
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/18/21 14:27
Date Received: 11/18/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.2		%	0.100	NA	1	-	11/20/21 10:06	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	11/24/21 11:20	11/24/21 16:26	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.868	0.174	1	11/23/21 19:00	11/24/21 13:05	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163893
Report Date: 12/06/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1574482-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	11/23/21 19:00	11/24/21 13:05	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1575475-1										
Cyanide, Total	ND		mg/kg	0.93	0.20	1	11/24/21 11:20	11/24/21 16:11	1,9010C/9012B	JO

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163893

Report Date: 12/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1574482-2								
Chromium, Hexavalent	86		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1575475-2 WG1575475-3								
Cyanide, Total	**57**	Q	**66**	Q	80-120	13		35

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163893
Report Date: 12/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1574482-4 QC Sample: L2163893-01 Client ID: EP18_1												
Chromium, Hexavalent	ND	1100	1060	96		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1575475-4 WG1575475-5 QC Sample: L2163893-01 Client ID: EP18_1												
Cyanide, Total	ND	10	9.7	97		9.8	96		75-125	1		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163893
Report Date: 12/06/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1573921-1 QC Sample: L2163837-01 Client ID: DUP Sample						
Solids, Total	83.4	85.0	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1574482-6 QC Sample: L2163893-01 Client ID: EP18_1						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163893
Report Date: 12/06/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2163893-01A	Vial MeOH preserved	A	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L2163893-01B	Vial water preserved	A	NA		4.2	Y	Absent	19-NOV-21 16:32	NYTCL-8260HLW(14)
L2163893-01C	Vial water preserved	A	NA		4.2	Y	Absent	19-NOV-21 16:32	NYTCL-8260HLW(14)
L2163893-01D	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		TS(7)
L2163893-01E	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		TS(7)
L2163893-01F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),SB-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),MG-TI(180),HG-T(28),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2163893-01G	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2163893-01H	Glass 500ml/16oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2163893-01I	Plastic 8oz unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2163893-02A	Vial MeOH preserved	A	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L2163893-02B	Vial water preserved	A	NA		4.2	Y	Absent	19-NOV-21 16:32	NYTCL-8260HLW(14)
L2163893-02C	Vial water preserved	A	NA		4.2	Y	Absent	19-NOV-21 16:32	NYTCL-8260HLW(14)
L2163893-02D	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		TS(7)
L2163893-02E	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		TS(7)
L2163893-02F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),CO-TI(180),V-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2163893-02G	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163893
Report Date: 12/06/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2163893-02H	Glass 500ml/16oz unpreserved	A	NA		4.2	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2163893-02I	Plastic 8oz unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163893
Report Date: 12/06/21

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2163893
Project Number:	170599501	**Report Date:**	12/06/21

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:	1607 SURF AVENUE	**Lab Number:**	L2163893
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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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2163893
Project Number:	170599501	**Report Date:**	12/06/21

Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2163893
Project Number:	170599501	**Report Date:**	12/06/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

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, SM4500Cl-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, **LACHAT 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

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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 1

Date Rec'd in Lab: 11/18/21

ALPHA Job #: L2163893

Client Information
Client: Langan
Address:
Phone:
Fax:
Email: ksemon@langan.com

Project Information
Project Name: 1607 Sixth Avenue
Project Location: Brooklyn, NY
Project #: 170599501
(Use Project name as Project #)
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard: [X]
Rush (only if pre approved): [ ]
Due Date: All analysis to be completed on 5-day TAT including PFAS
# of Days:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:
cc: Lesmai@langan.com ; datamanagement@langan.com

Please specify Metals or TAL.

Deliverables
[ ] ASP-A [X] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[X] Other

Regulatory Requirement
[ ] NY TOGS [ ] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[ ] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Billing Information
[X] Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs, SVOCs	TCL Pesticides	TAL Metals	TCN	Hex / Trivalent	PFAS	1,4-dioxane	Herbs, PCBs	Sample Specific Comments	Total Bottle
63893-1	EP18_1	11/18/21	14 18	S	GEC	X	X	X	X	X	X	X	X		
-2	EP17_1	11/18/21	14 27	S	GEC	X	X	X	X	X	X	X	X		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
Gabriel Enriquez Cabrera	11/18/21 18:46		
	11/18/21 18:46		11/18 1930
AAL	11/18	AAL	11/18/21 21:30
AAL	11/18/21 23:40		11/18/21 23:40

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2164557
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Kimberly Semon
Phone:	(212) 479-5486
Project Name:	1607 SURF AVE.
Project Number:	170599501
Report Date:	12/08/21

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2164557-01	EP01_1	SOIL	BROOKLYN, NY	11/22/21 12:00	11/22/21
L2164557-02	EP02_1	SOIL	BROOKLYN, NY	11/22/21 12:10	11/22/21
L2164557-03	EP09_1	SOIL	BROOKLYN, NY	11/22/21 12:20	11/22/21
L2164557-04	EPSW03_-3	SOIL	BROOKLYN, NY	11/22/21 12:30	11/22/21
L2164557-05	EPSW04_-3	SOIL	BROOKLYN, NY	11/22/21 12:40	11/22/21
L2164557-06	EPSW05_-3	SOIL	BROOKLYN, NY	11/22/21 12:50	11/22/21
L2164557-07	EPSW06_-7.5	SOIL	BROOKLYN, NY	11/22/21 13:00	11/22/21
L2164557-08	TRIP BLANK	WATER	BROOKLYN, NY	11/22/21 00:00	11/22/21

Project Name:	1607 SURF AVE.	**Lab Number:**	L2164557
Project Number:	170599501	**Report Date:**	12/08/21

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: 1607 SURF AVE. **Lab Number:** L2164557
Project Number: 170599501 **Report Date:** 12/08/21

Case Narrative (continued)

Report Submission

December 08, 2021: This final report includes the results of all requested analyses.

December 06, 2021: This is a preliminary report.

November 23, 2021: This is a preliminary report.

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

Sample Receipt

L2164557-08: A sample identified as "TRIP BLANK" was received, but not listed on the Chain of Custody. At the client's request, this sample was not analyzed.

Volatile Organics

L2164557-06: The internal standard (IS) responses for fluorobenzene (16%), chlorobenzene-d5 (17%), and 1,4-dichlorobenzene-d4 (19%) and the surrogate recovery for 1,2-dichloroethane-d4 (179%) were outside the acceptance criteria; however, re-analysis achieved the following results: fluorobenzene (17%), chlorobenzene-d5 (19%), 1,4-dichlorobenzene-d4 (19%), dibromofluoromethane (133%) and 1,2-dichloroethane-d4 (200%). The results of both analyses are reported; however, since the IS response was below method criteria, all associated compounds and surrogate recoveries are considered to have a potentially high bias.

Perfluorinated Alkyl Acids by Isotope Dilution

L2164557-01, -02, WG1574859-1, WG1574859-2, WG1574859-3, and WG1574859-4: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

L2164557-02 and WG1574859-4: The MeOH fraction of the extraction is reported for perfluorooctanesulfonamide (fosa) due to better extraction efficiency of the perfluoro[13c8]octanesulfonamide (m8fosa) Extracted Internal Standard.

Project Name:	1607 SURF AVE.	**Lab Number:**	L2164557
Project Number:	170599501	**Report Date:**	12/08/21

Case Narrative (continued)

WG1574859-3: The Extracted Internal Standard recovery is below the acceptance criteria for perfluoro[13c8]octanesulfonamide (m8fosa) (less than 10%); however, all associated target analytes are within criteria; therefore, no further action was taken.

Total Metals

L2164557-01 through -06: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1575727-3 MS recovery, performed on L2164557-01, is outside the acceptance criteria for aluminum (176%). A post digestion spike was performed and yielded an unacceptable recovery for aluminum (78%). The serial dilution recovery was acceptable; therefore, the matrix test passed for the sample matrix.

The WG1575727-3 MS recovery for iron (176%), performed on L2164557-01, does not apply because the sample concentration is greater than four times the spike amount added.

The WG1575727-4 Laboratory Duplicate RPDs for barium (26%), calcium (50%), chromium (63%), copper (27%), manganese (26%), vanadium (25%) and zinc (27%), performed on L2164557-01, are outside the acceptance criteria. The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.

Cyanide, Total

The WG1576967-2/-3 LCS/LCSD recoveries for cyanide, total (39%/73%), associated with L2164557-01 through -06, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported. The LCS/LCSD RPD is above the acceptance criteria for cyanide, total (64%).

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: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 12/08/21

ORGANICS

VOLATILES

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-01
Client ID: EP01_1
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:00
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/03/21 07:36
Analyst: MKS
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.6	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.35	1
Tetrachloroethene	ND		ug/kg	0.66	0.26	1
Chlorobenzene	ND		ug/kg	0.66	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.3	0.92	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.66	0.22	1
Bromodichloromethane	ND		ug/kg	0.66	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.66	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.66	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.66	0.21	1
Bromoform	ND		ug/kg	5.3	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.66	0.22	1
Benzene	ND		ug/kg	0.66	0.22	1
Toluene	ND		ug/kg	1.3	0.72	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	5.3	1.2	1
Bromomethane	ND		ug/kg	2.6	0.77	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
Chloroethane	ND		ug/kg	2.6	0.60	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-01 Date Collected: 11/22/21 12:00

Client ID: EP01_1 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.66	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.27	1
p/m-Xylene	ND		ug/kg	2.6	0.74	1
o-Xylene	ND		ug/kg	1.3	0.38	1
Xylenes, Total	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.32	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.4	1
Carbon disulfide	ND		ug/kg	13	6.0	1
2-Butanone	ND		ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.17	1
2-Hexanone	ND		ug/kg	13	1.6	1
Bromochloromethane	ND		ug/kg	2.6	0.27	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.37	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.66	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.16	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.3	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.3	0.86	1
Acrylonitrile	ND		ug/kg	5.3	1.5	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-01 Date Collected: 11/22/21 12:00

Client ID: EP01_1 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.43	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.44	1
1,4-Dioxane	ND		ug/kg	100	46.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.51	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.25	1
Ethyl ether	ND		ug/kg	2.6	0.45	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.6	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	101		70-130

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2164557
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-02
Client ID: EP02_1
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:10
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/03/21 08:02
Analyst: MKS
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.1	3.2	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.1	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.33	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.18	1
Dibromochloromethane	ND		ug/kg	1.4	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.38	1
Tetrachloroethene	ND		ug/kg	0.71	0.28	1
Chlorobenzene	ND		ug/kg	0.71	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.7	0.98	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.36	1
1,1,1-Trichloroethane	ND		ug/kg	0.71	0.24	1
Bromodichloromethane	ND		ug/kg	0.71	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.39	1
cis-1,3-Dichloropropene	ND		ug/kg	0.71	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.71	0.22	1
1,1-Dichloropropene	ND		ug/kg	0.71	0.22	1
Bromoform	ND		ug/kg	5.7	0.35	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.71	0.24	1
Benzene	ND		ug/kg	0.71	0.24	1
Toluene	ND		ug/kg	1.4	0.77	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.7	1.3	1
Bromomethane	ND		ug/kg	2.8	0.82	1
Vinyl chloride	ND		ug/kg	1.4	0.48	1
Chloroethane	ND		ug/kg	2.8	0.64	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.19	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-02 Date Collected: 11/22/21 12:10

Client ID: EP02_1 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.71	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.28	1
p/m-Xylene	ND		ug/kg	2.8	0.79	1
o-Xylene	ND		ug/kg	1.4	0.41	1
Xylenes, Total	ND		ug/kg	1.4	0.41	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.25	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.19	1
Dibromomethane	ND		ug/kg	2.8	0.34	1
Styrene	ND		ug/kg	1.4	0.28	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	ND		ug/kg	14	6.8	1
Carbon disulfide	ND		ug/kg	14	6.4	1
2-Butanone	ND		ug/kg	14	3.1	1
Vinyl acetate	ND		ug/kg	14	3.0	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
1,2,3-Trichloropropane	ND		ug/kg	2.8	0.18	1
2-Hexanone	ND		ug/kg	14	1.7	1
Bromochloromethane	ND		ug/kg	2.8	0.29	1
2,2-Dichloropropane	ND		ug/kg	2.8	0.29	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.40	1
1,3-Dichloropropane	ND		ug/kg	2.8	0.24	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.71	0.19	1
Bromobenzene	ND		ug/kg	2.8	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.24	1
sec-Butylbenzene	ND		ug/kg	1.4	0.21	1
tert-Butylbenzene	ND		ug/kg	2.8	0.17	1
o-Chlorotoluene	ND		ug/kg	2.8	0.27	1
p-Chlorotoluene	ND		ug/kg	2.8	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.24	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.7	0.92	1
Acrylonitrile	ND		ug/kg	5.7	1.6	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-02 Date Collected: 11/22/21 12:10

Client ID: EP02_1 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	0.46	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	0.38	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	0.27	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	0.47	1
1,4-Dioxane	ND		ug/kg	110	50.	1
p-Diethylbenzene	ND		ug/kg	2.8	0.25	1
p-Ethyltoluene	ND		ug/kg	2.8	0.54	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.8	0.27	1
Ethyl ether	ND		ug/kg	2.8	0.48	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.1	2.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	101		70-130

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-03
Client ID: EP09_1
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:20
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/03/21 08:27
Analyst: MKS
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.9	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	ND		ug/kg	0.59	0.23	1
Chlorobenzene	ND		ug/kg	0.59	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.82	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.59	0.20	1
Bromodichloromethane	ND		ug/kg	0.59	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.59	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.59	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.59	0.19	1
Bromoform	ND		ug/kg	4.7	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.59	0.20	1
Benzene	ND		ug/kg	0.59	0.20	1
Toluene	ND		ug/kg	1.2	0.64	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.7	1.1	1
Bromomethane	ND		ug/kg	2.4	0.68	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.53	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-03 Date Collected: 11/22/21 12:20

Client ID: EP09_1 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.59	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.66	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.7	1
Carbon disulfide	ND		ug/kg	12	5.4	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.59	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.22	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.7	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.7	0.77	1
Acrylonitrile	ND		ug/kg	4.7	1.4	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-03 Date Collected: 11/22/21 12:20

Client ID: EP09_1 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.39	1
1,4-Dioxane	ND		ug/kg	94	41.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.45	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.22	1
Ethyl ether	ND		ug/kg	2.4	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**150**	Q	70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	114		70-130

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-04
Client ID: EPSW03_-3
Sample Location: BROOKLYN, NY
Date Collected: 11/22/21 12:30
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/03/21 20:52
Analyst: JC
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.98	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.98	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.98	0.12	1
Dibromochloromethane	ND		ug/kg	0.98	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.98	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.98	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.98	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.49	0.16	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.98	0.53	1
Ethylbenzene	ND		ug/kg	0.98	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	2.0	0.57	1
Vinyl chloride	ND		ug/kg	0.98	0.33	1
Chloroethane	ND		ug/kg	2.0	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.98	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-04 Date Collected: 11/22/21 12:30

Client ID: EPSW03_-3 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.55	1
o-Xylene	ND		ug/kg	0.98	0.28	1
Xylenes, Total	ND		ug/kg	0.98	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.98	0.13	1
Dibromomethane	ND		ug/kg	2.0	0.23	1
Styrene	ND		ug/kg	0.98	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.8	0.90	1
Acetone	ND		ug/kg	9.8	4.7	1
Carbon disulfide	ND		ug/kg	9.8	4.5	1
2-Butanone	ND		ug/kg	9.8	2.2	1
Vinyl acetate	ND		ug/kg	9.8	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.8	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.12	1
2-Hexanone	ND		ug/kg	9.8	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.98	0.27	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	0.98	0.16	1
sec-Butylbenzene	ND		ug/kg	0.98	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.98	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.98	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.98	0.11	1
Naphthalene	ND		ug/kg	3.9	0.64	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-04 Date Collected: 11/22/21 12:30

Client ID: EPSW03_-3 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.98	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	78	34.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.17	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	107		70-130

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2164557
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-05
Client ID: EPSW04_-3
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:40
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/03/21 09:17
Analyst: MKS
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.1	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.61	0.24	1
Chlorobenzene	ND		ug/kg	0.61	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.84	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	0.20	1
Bromodichloromethane	ND		ug/kg	0.61	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.61	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.61	0.19	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	0.20	1
Benzene	ND		ug/kg	0.61	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.1	1
Bromomethane	ND		ug/kg	2.4	0.71	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-05 Date Collected: 11/22/21 12:40

Client ID: EPSW04_-3 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.61	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.61	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.9	0.79	1
Acrylonitrile	ND		ug/kg	4.9	1.4	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-05 Date Collected: 11/22/21 12:40

Client ID: EPSW04_-3 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.41	1
1,4-Dioxane	ND		ug/kg	97	43.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.22	1
p-Ethyltoluene	ND		ug/kg	2.4	0.47	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	108		70-130

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-06
Client ID: EPSW05_-3
Sample Location: BROOKLYN, NY
Date Collected: 11/22/21 12:50
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/03/21 09:42
Analyst: MKS
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.1	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	ND		ug/kg	0.61	0.24	1
Chlorobenzene	ND		ug/kg	0.61	0.16	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.85	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	0.20	1
Bromodichloromethane	ND		ug/kg	0.61	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.61	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.61	0.20	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	0.20	1
Benzene	ND		ug/kg	0.61	0.20	1
Toluene	ND		ug/kg	1.2	0.67	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.1	1
Bromomethane	ND		ug/kg	2.4	0.71	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-06 Date Collected: 11/22/21 12:50

Client ID: EPSW05_-3 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.61	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.25	1
p/m-Xylene	ND		ug/kg	2.4	0.69	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.9	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.16	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.61	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.9	0.80	1
Acrylonitrile	ND		ug/kg	4.9	1.4	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-06 Date Collected: 11/22/21 12:50

Client ID: EPSW05_-3 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.41	1
1,4-Dioxane	ND		ug/kg	98	43.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.22	1
p-Ethyltoluene	ND		ug/kg	2.4	0.47	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**179**	Q	70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	126		70-130

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-06 R
Client ID: EPSW05_-3
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:50
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/03/21 21:17
Analyst: JC
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.31	1
Tetrachloroethene	ND		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.80	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.57	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	ND		ug/kg	1.1	0.62	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.67	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-06 R Date Collected: 11/22/21 12:50
Client ID: EPSW05_-3 Date Received: 11/22/21
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	11		ug/kg	11	5.5	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.14	1
2-Hexanone	ND		ug/kg	11	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.57	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.6	0.75	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-06 R
Client ID: EPSW05_-3
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:50
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	92	40.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**200**	Q	70-130
Toluene-d8	86		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	**133**	Q	70-130

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/03/21 20:27
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04,06 Batch: WG1578849-10					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/03/21 20:27
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04,06 Batch: WG1578849-10					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/03/21 20:27
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04,06 Batch: WG1578849-10					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	104		70-130

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/03/21 07:11
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03,05-06 Batch: WG1578849-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/03/21 07:11
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03,05-06 Batch: WG1578849-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/03/21 07:11
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03,05-06 Batch: WG1578849-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03,05-06 Batch: WG1578849-3 WG1578849-4								
Methylene chloride	85		83		70-130	2		30
1,1-Dichloroethane	100		97		70-130	3		30
Chloroform	93		92		70-130	1		30
Carbon tetrachloride	101		98		70-130	3		30
1,2-Dichloropropane	101		98		70-130	3		30
Dibromochloromethane	89		88		70-130	1		30
1,1,2-Trichloroethane	96		96		70-130	0		30
Tetrachloroethene	102		99		70-130	3		30
Chlorobenzene	94		94		70-130	0		30
Trichlorofluoromethane	84		82		70-139	2		30
1,2-Dichloroethane	96		93		70-130	3		30
1,1,1-Trichloroethane	104		101		70-130	3		30
Bromodichloromethane	100		98		70-130	2		30
trans-1,3-Dichloropropene	100		100		70-130	0		30
cis-1,3-Dichloropropene	104		100		70-130	4		30
1,1-Dichloropropene	102		100		70-130	2		30
Bromoform	100		100		70-130	0		30
1,1,2,2-Tetrachloroethane	98		98		70-130	0		30
Benzene	97		94		70-130	3		30
Toluene	94		92		70-130	2		30
Ethylbenzene	93		92		70-130	1		30
Chloromethane	101		97		52-130	4		30
Bromomethane	59		58		57-147	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03,05-06 Batch: WG1578849-3 WG1578849-4								
Vinyl chloride	68		67		67-130	1		30
Chloroethane	61		59		50-151	3		30
1,1-Dichloroethene	90		89		65-135	1		30
trans-1,2-Dichloroethene	90		89		70-130	1		30
Trichloroethene	98		95		70-130	3		30
1,2-Dichlorobenzene	93		92		70-130	1		30
1,3-Dichlorobenzene	95		93		70-130	2		30
1,4-Dichlorobenzene	93		92		70-130	1		30
Methyl tert butyl ether	95		93		66-130	2		30
p/m-Xylene	97		96		70-130	1		30
o-Xylene	95		95		70-130	0		30
cis-1,2-Dichloroethene	92		92		70-130	0		30
Dibromomethane	93		93		70-130	0		30
Styrene	93		92		70-130	1		30
Dichlorodifluoromethane	56		54		30-146	4		30
Acetone	90		90		54-140	0		30
Carbon disulfide	84		83		59-130	1		30
2-Butanone	107		115		70-130	7		30
Vinyl acetate	122		120		70-130	2		30
4-Methyl-2-pentanone	99		101		70-130	2		30
1,2,3-Trichloropropane	98		97		68-130	1		30
2-Hexanone	105		102		70-130	3		30
Bromochloromethane	92		90		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2164557

Report Date: 12/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03,05-06 Batch: WG1578849-3 WG1578849-4								
2,2-Dichloropropane	101		98		70-130	3		30
1,2-Dibromoethane	103		102		70-130	1		30
1,3-Dichloropropane	97		96		69-130	1		30
1,1,1,2-Tetrachloroethane	103		103		70-130	0		30
Bromobenzene	95		93		70-130	2		30
n-Butylbenzene	97		96		70-130	1		30
sec-Butylbenzene	98		97		70-130	1		30
tert-Butylbenzene	97		96		70-130	1		30
o-Chlorotoluene	97		96		70-130	1		30
p-Chlorotoluene	98		96		70-130	2		30
1,2-Dibromo-3-chloropropane	101		103		68-130	2		30
Hexachlorobutadiene	98		98		67-130	0		30
Isopropylbenzene	96		95		70-130	1		30
p-Isopropyltoluene	98		97		70-130	1		30
Naphthalene	97		96		70-130	1		30
Acrylonitrile	115		115		70-130	0		30
n-Propylbenzene	95		94		70-130	1		30
1,2,3-Trichlorobenzene	96		96		70-130	0		30
1,2,4-Trichlorobenzene	96		95		70-130	1		30
1,3,5-Trimethylbenzene	96		95		70-130	1		30
1,2,4-Trimethylbenzene	97		95		70-130	2		30
1,4-Dioxane	127		126		65-136	1		30
p-Diethylbenzene	98		97		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2164557

Report Date: 12/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03,05-06 Batch: WG1578849-3 WG1578849-4								
p-Ethyltoluene	97		96		70-130	1		30
1,2,4,5-Tetramethylbenzene	97		96		70-130	1		30
Ethyl ether	89		87		67-130	2		30
trans-1,4-Dichloro-2-butene	125		123		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		104		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	106		105		70-130
Dibromofluoromethane	100		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2164557

Report Date: 12/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04,06 Batch: WG1578849-8 WG1578849-9								
Methylene chloride	89		88		70-130	1		30
1,1-Dichloroethane	102		101		70-130	1		30
Chloroform	100		101		70-130	1		30
Carbon tetrachloride	109		112		70-130	3		30
1,2-Dichloropropane	100		98		70-130	2		30
Dibromochloromethane	96		99		70-130	3		30
1,1,2-Trichloroethane	93		95		70-130	2		30
Tetrachloroethene	114		113		70-130	1		30
Chlorobenzene	96		96		70-130	0		30
Trichlorofluoromethane	92		92		70-139	0		30
1,2-Dichloroethane	106		107		70-130	1		30
1,1,1-Trichloroethane	112		112		70-130	0		30
Bromodichloromethane	106		106		70-130	0		30
trans-1,3-Dichloropropene	98		102		70-130	4		30
cis-1,3-Dichloropropene	102		103		70-130	1		30
1,1-Dichloropropene	98		98		70-130	0		30
Bromoform	106		111		70-130	5		30
1,1,2,2-Tetrachloroethane	85		89		70-130	5		30
Benzene	96		95		70-130	1		30
Toluene	92		91		70-130	1		30
Ethylbenzene	90		90		70-130	0		30
Chloromethane	103		102		52-130	1		30
Bromomethane	67		65		57-147	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2164557

Report Date: 12/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04,06 Batch: WG1578849-8 WG1578849-9								
Vinyl chloride	68		67		67-130	1		30
Chloroethane	67		65		50-151	3		30
1,1-Dichloroethene	90		90		65-135	0		30
trans-1,2-Dichloroethene	94		92		70-130	2		30
Trichloroethene	102		101		70-130	1		30
1,2-Dichlorobenzene	94		95		70-130	1		30
1,3-Dichlorobenzene	96		96		70-130	0		30
1,4-Dichlorobenzene	93		95		70-130	2		30
Methyl tert butyl ether	96		97		66-130	1		30
p/m-Xylene	97		97		70-130	0		30
o-Xylene	97		97		70-130	0		30
cis-1,2-Dichloroethene	96		95		70-130	1		30
Dibromomethane	99		99		70-130	0		30
Styrene	96		96		70-130	0		30
Dichlorodifluoromethane	56		56		30-146	0		30
Acetone	102		92		54-140	10		30
Carbon disulfide	84		83		59-130	1		30
2-Butanone	126		113		70-130	11		30
Vinyl acetate	129		**135**	Q	70-130	5		30
4-Methyl-2-pentanone	92		98		70-130	6		30
1,2,3-Trichloropropane	86		89		68-130	3		30
2-Hexanone	100		100		70-130	0		30
Bromochloromethane	103		103		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2164557

Report Date: 12/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04,06 Batch: WG1578849-8 WG1578849-9								
2,2-Dichloropropane	104		103		70-130	1		30
1,2-Dibromoethane	103		105		70-130	2		30
1,3-Dichloropropane	91		94		69-130	3		30
1,1,1,2-Tetrachloroethane	114		116		70-130	2		30
Bromobenzene	95		97		70-130	2		30
n-Butylbenzene	85		86		70-130	1		30
sec-Butylbenzene	87		88		70-130	1		30
tert-Butylbenzene	89		90		70-130	1		30
o-Chlorotoluene	87		88		70-130	1		30
p-Chlorotoluene	89		88		70-130	1		30
1,2-Dibromo-3-chloropropane	103		109		68-130	6		30
Hexachlorobutadiene	111		111		67-130	0		30
Isopropylbenzene	85		85		70-130	0		30
p-Isopropyltoluene	91		91		70-130	0		30
Naphthalene	88		92		70-130	4		30
Acrylonitrile	120		127		70-130	6		30
n-Propylbenzene	83		83		70-130	0		30
1,2,3-Trichlorobenzene	101		105		70-130	4		30
1,2,4-Trichlorobenzene	100		102		70-130	2		30
1,3,5-Trimethylbenzene	88		88		70-130	0		30
1,2,4-Trimethylbenzene	88		89		70-130	1		30
1,4-Dioxane	126		130		65-136	3		30
p-Diethylbenzene	90		90		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2164557

Report Date: 12/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04,06 Batch: WG1578849-8 WG1578849-9								
p-Ethyltoluene	87		87		70-130	0		30
1,2,4,5-Tetramethylbenzene	91		91		70-130	0		30
Ethyl ether	90		90		67-130	0		30
trans-1,4-Dichloro-2-butene	116		122		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		116		70-130
Toluene-d8	96		97		70-130
4-Bromofluorobenzene	89		90		70-130
Dibromofluoromethane	107		107		70-130

SEMIVOLATILES

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2164557
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-01
Client ID: EP01_1
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:00
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/26/21 12:47
Analyst: EK
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 11/25/21 06:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-01 Date Collected: 11/22/21 12:00

Client ID: EP01_1 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	32.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	ND		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	72.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	920	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-01 Date Collected: 11/22/21 12:00

Client ID: EP01_1 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	620	200	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	8.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	74		18-120

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-01
Client ID: EP01_1
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:00
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/05/21 08:47
Analyst: RS
Percent Solids: 85%

Extraction Method: ALPHA 23528
Extraction Date: 11/23/21 08:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.512	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.512	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.256	0.040	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.512	0.054	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.256	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.256	0.062	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.256	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.512	0.184	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.512	0.140	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.256	0.077	1
Perfluorooctanesulfonic Acid (PFOS)	0.382		ng/g	0.256	0.133	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.256	0.069	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.512	0.294	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.512	0.206	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.512	0.048	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.512	0.157	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.512	0.100	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.512	0.087	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.512	0.072	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.512	0.210	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.512	0.055	1
PFOA/PFOS, Total	0.382		ng/g	0.256	0.043	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-01 Date Collected: 11/22/21 12:00

Client ID: EP01_1 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	68		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	90		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	**73**	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	**60**	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	**67**	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	**77**	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	**69**	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	146		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	77		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	**71**	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	**70**	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**273**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	52		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	75		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	10		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	45		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	54		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	**14**	Q	24-159

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2164557
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-02
Client ID: EP02_1
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:10
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/26/21 13:11
Analyst: EK
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 11/25/21 06:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	ND		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-02 Date Collected: 11/22/21 12:10

Client ID: EP02_1 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	400	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	900	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-02 Date Collected: 11/22/21 12:10

Client ID: EP02_1 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	78		18-120

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-02
Client ID: EP02_1
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:10
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/05/21 09:20
Analyst: RS
Percent Solids: 86%

Extraction Method: ALPHA 23528
Extraction Date: 11/23/21 08:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.527	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.527	0.049	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.264	0.041	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.527	0.055	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.264	0.048	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.264	0.064	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.264	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.527	0.189	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.527	0.144	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.264	0.079	1
Perfluorooctanesulfonic Acid (PFOS)	0.145	J	ng/g	0.264	0.137	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.264	0.071	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.527	0.303	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.527	0.212	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.527	0.049	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.527	0.161	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.527	0.089	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.527	0.074	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.527	0.216	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.527	0.057	1
PFOA/PFOS, Total	0.145	J	ng/g	0.264	0.044	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-02 Date Collected: 11/22/21 12:10

Client ID: EP02_1 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	120		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	87		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	77		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	83		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	91		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**182**	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	96		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	88		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	88		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**302**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	90		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	97		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	77		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	73		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	54		24-159

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-02
Client ID: EP02_1
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:10
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/05/21 16:31
Analyst: SG
Percent Solids: 86%

Extraction Method: ALPHA 23528
Extraction Date: 11/23/21 08:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.527	0.103	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	81		10-117

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2164557
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-03
Client ID: EP09_1
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:20
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/26/21 13:35
Analyst: EK
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 11/25/21 06:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-03 Date Collected: 11/22/21 12:20

Client ID: EP09_1 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	960	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-03 Date Collected: 11/22/21 12:20

Client ID: EP09_1 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	83		10-136
4-Terphenyl-d14	85		18-120

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-03
Client ID: EP09_1
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:20
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/07/21 18:10
Analyst: RS
Percent Solids: 83%

Extraction Method: ALPHA 23528
Extraction Date: 11/23/21 08:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.530	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.530	0.049	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.265	0.041	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.530	0.056	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.265	0.048	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.265	0.064	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.265	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.530	0.190	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.530	0.145	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.265	0.080	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.265	0.138	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.265	0.071	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.530	0.304	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.530	0.214	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.530	0.050	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.530	0.162	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.530	0.104	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.530	0.090	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.530	0.074	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.530	0.217	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.530	0.057	1
PFOA/PFOS, Total	ND		ng/g	0.265	0.044	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-03 Date Collected: 11/22/21 12:20

Client ID: EP09_1 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	96		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	103		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	114		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	117		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	101		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	125		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	103		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	112		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	170		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	87		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	89		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	30		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	95		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	88		24-159

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2164557
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-04
Client ID: EPSW03_-3
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:30
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/26/21 14:00
Analyst: EK
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 11/25/21 06:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	37.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	55.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	27.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	52.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	70.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-04 Date Collected: 11/22/21 12:30

Client ID: EPSW03_-3 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	29.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	40.	1
3-Nitroaniline	ND		ug/kg	200	39.	1
4-Nitroaniline	ND		ug/kg	200	85.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	31.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	68.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	990	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	99.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-04 Date Collected: 11/22/21 12:30

Client ID: EPSW03_-3 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	200	63.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	31	9.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	67		10-136
4-Terphenyl-d14	67		18-120

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2164557
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-04
Client ID: EPSW03_-3
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:30
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/07/21 18:27
Analyst: RS
Percent Solids: 79%

Extraction Method: ALPHA 23528
Extraction Date: 11/23/21 08:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.574	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.574	0.053	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.287	0.045	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.574	0.060	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.287	0.052	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.287	0.070	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.287	0.048	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.574	0.206	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.574	0.157	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.287	0.086	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.287	0.149	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.287	0.077	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.574	0.330	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.574	0.232	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.574	0.054	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.574	0.176	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.574	0.113	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.574	0.097	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.574	0.080	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.574	0.235	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.574	0.062	1
PFOA/PFOS, Total	ND		ng/g	0.287	0.048	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-04 Date Collected: 11/22/21 12:30

Client ID: EPSW03_-3 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	99		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	108		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	111		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	95		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	100		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	115		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	110		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	107		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	103		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	140		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	92		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	100		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	62		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	90		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	88		24-159

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2164557
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-05
Client ID: EPSW04_-3
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:40
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/26/21 14:24
Analyst: EK
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 11/25/21 06:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	37.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	52.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	70.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-05 Date Collected: 11/22/21 12:40

Client ID: EPSW04_-3 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	39.	1
4-Nitroaniline	ND		ug/kg	200	85.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	68.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	980	95.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	98.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-05 Date Collected: 11/22/21 12:40

Client ID: EPSW04_-3 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	210	1
Benzyl Alcohol	ND		ug/kg	200	63.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	31	9.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	61		18-120

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2164557
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-05
Client ID: EPSW04_-3
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:40
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/07/21 18:43
Analyst: RS
Percent Solids: 81%

Extraction Method: ALPHA 23528
Extraction Date: 11/23/21 08:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.582	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.582	0.054	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.291	0.045	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.582	0.061	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.291	0.053	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.291	0.070	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.291	0.049	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.582	0.209	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.582	0.159	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.291	0.087	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.291	0.151	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.291	0.078	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.582	0.334	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.582	0.234	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.582	0.054	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.582	0.178	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.582	0.114	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.582	0.098	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.582	0.081	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.582	0.238	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.582	0.063	1
PFOA/PFOS, Total	ND		ng/g	0.291	0.049	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-05 Date Collected: 11/22/21 12:40

Client ID: EPSW04_-3 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	104		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	108		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	113		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	102		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	105		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	111		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	102		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	111		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	111		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	116		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	105		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	126		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	85		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	114		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	18		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	101		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	104		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	109		24-159

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2164557
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-06
Client ID: EPSW05_-3
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:50
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/30/21 07:27
Analyst: SZ
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 11/25/21 06:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	37.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	52.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	70.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-06 Date Collected: 11/22/21 12:50

Client ID: EPSW05_-3 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	39.	1
4-Nitroaniline	ND		ug/kg	200	85.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	68.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	980	95.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	98.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-06 Date Collected: 11/22/21 12:50

Client ID: EPSW05_-3 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	210	1
Benzyl Alcohol	ND		ug/kg	200	63.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	31	9.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	64		18-120

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-06
Client ID: EPSW05_-3
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:50
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/07/21 19:00
Analyst: RS
Percent Solids: 81%

Extraction Method: ALPHA 23528
Extraction Date: 11/23/21 08:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.540	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.540	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.270	0.042	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.540	0.057	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.270	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.270	0.065	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.270	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.540	0.194	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.540	0.148	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.270	0.081	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.270	0.140	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.270	0.072	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.540	0.310	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.540	0.218	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.540	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.540	0.165	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.540	0.106	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.540	0.091	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.540	0.076	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.540	0.221	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.540	0.058	1
PFOA/PFOS, Total	ND		ng/g	0.270	0.045	1

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-06 Date Collected: 11/22/21 12:50

Client ID: EPSW05_-3 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	97		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	104		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	109		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	96		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	99		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	102		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	110		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	109		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	104		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	99		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	155		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	64		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	98		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	31		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	88		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	89		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	83		24-159

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/04/21 17:49
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 11/23/21 08:48

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-06 Batch: WG1574859-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/04/21 17:49
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 11/23/21 08:48

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-06 Batch: WG1574859-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	96		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	124		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	100		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	84		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	101		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**221**	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	112		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	105		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	104		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**358**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	104		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	107		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	21		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	117		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	79		24-159

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/05/21 16:09
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 11/23/21 08:48

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-06 Batch: WG1574859-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	88		10-117

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/26/21 09:08
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 11/25/21 06:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1575863-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.
Hexachlorobenzene	ND		ug/kg	100	19.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	170	16.
1,2-Dichlorobenzene	ND		ug/kg	170	30.
1,3-Dichlorobenzene	ND		ug/kg	170	28.
1,4-Dichlorobenzene	ND		ug/kg	170	29.
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.
2,4-Dinitrotoluene	ND		ug/kg	170	33.
2,6-Dinitrotoluene	ND		ug/kg	170	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	170	24.
Hexachlorocyclopentadiene	ND		ug/kg	480	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	170	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	57.
Butyl benzyl phthalate	ND		ug/kg	170	42.
Di-n-butylphthalate	ND		ug/kg	170	32.
Di-n-octylphthalate	ND		ug/kg	170	56.
Diethyl phthalate	ND		ug/kg	170	15.

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2164557
Report Date: 12/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/26/21 09:08
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 11/25/21 06:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1575863-1					
Dimethyl phthalate	ND		ug/kg	170	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	170	30.
2-Nitroaniline	ND		ug/kg	170	32.
3-Nitroaniline	ND		ug/kg	170	31.
4-Nitroaniline	ND		ug/kg	170	69.
Dibenzofuran	ND		ug/kg	170	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.
Acetophenone	ND		ug/kg	170	20.
2,4,6-Trichlorophenol	ND		ug/kg	100	32.
p-Chloro-m-cresol	ND		ug/kg	170	25.
2-Chlorophenol	ND		ug/kg	170	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	170	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/26/21 09:08
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 11/25/21 06:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1575863-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	170	25.
2-Methylphenol	ND		ug/kg	170	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	170	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	170	51.
Carbazole	ND		ug/kg	170	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	106		25-120
Phenol-d6	104		10-120
Nitrobenzene-d5	110		23-120
2-Fluorobiphenyl	106		30-120
2,4,6-Tribromophenol	107		10-136
4-Terphenyl-d14	109		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 Batch: WG1574859-2								
Perfluorobutanoic Acid (PFBA)	96		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	94		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	94		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	93		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	94		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	100		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	95		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	100		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	87		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	96		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	95		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	100		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	71		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	102		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	101		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	94		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	77		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	116		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	93		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	103		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	90		-		69-133	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2164557

Report Date: 12/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 Batch: WG1574859-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	92				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	120				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	82				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	96				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**221**	Q			20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**296**	Q			19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	107				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	105				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	22				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	98				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	91				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	78				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2164557

Report Date: 12/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab	Associated sample(s): 01-06		Batch: WG1574859-2					
Perfluorooctanesulfonamide (FOSA)	118		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	92				10-117

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2164557

Report Date: 12/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1575863-2 WG1575863-3								
Acenaphthene	91		73		31-137	22		50
1,2,4-Trichlorobenzene	88		72		38-107	20		50
Hexachlorobenzene	88		71		40-140	21		50
Bis(2-chloroethyl)ether	77		64		40-140	18		50
2-Chloronaphthalene	89		74		40-140	18		50
1,2-Dichlorobenzene	83		69		40-140	18		50
1,3-Dichlorobenzene	83		69		40-140	18		50
1,4-Dichlorobenzene	84		68		28-104	21		50
3,3'-Dichlorobenzidine	53		44		40-140	19		50
2,4-Dinitrotoluene	101		82		40-132	21		50
2,6-Dinitrotoluene	112		91		40-140	21		50
Fluoranthene	93		74		40-140	23		50
4-Chlorophenyl phenyl ether	91		72		40-140	23		50
4-Bromophenyl phenyl ether	89		69		40-140	25		50
Bis(2-chloroisopropyl)ether	58		48		40-140	19		50
Bis(2-chloroethoxy)methane	78		62		40-117	23		50
Hexachlorobutadiene	80		68		40-140	16		50
Hexachlorocyclopentadiene	87		70		40-140	22		50
Hexachloroethane	84		70		40-140	18		50
Isophorone	78		63		40-140	21		50
Naphthalene	84		68		40-140	21		50
Nitrobenzene	87		71		40-140	20		50
NDPA/DPA	95		76		36-157	22		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1575863-2 WG1575863-3								
n-Nitrosodi-n-propylamine	78		62		32-121	23		50
Bis(2-ethylhexyl)phthalate	109		84		40-140	26		50
Butyl benzyl phthalate	111		89		40-140	22		50
Di-n-butylphthalate	100		78		40-140	25		50
Di-n-octylphthalate	113		88		40-140	25		50
Diethyl phthalate	94		76		40-140	21		50
Dimethyl phthalate	95		78		40-140	20		50
Benzo(a)anthracene	93		73		40-140	24		50
Benzo(a)pyrene	94		73		40-140	25		50
Benzo(b)fluoranthene	93		74		40-140	23		50
Benzo(k)fluoranthene	95		73		40-140	26		50
Chrysene	92		71		40-140	26		50
Acenaphthylene	90		74		40-140	20		50
Anthracene	92		72		40-140	24		50
Benzo(ghi)perylene	94		74		40-140	24		50
Fluorene	94		75		40-140	22		50
Phenanthrene	92		72		40-140	24		50
Dibenzo(a,h)anthracene	93		74		40-140	23		50
Indeno(1,2,3-cd)pyrene	95		75		40-140	24		50
Pyrene	92		74		35-142	22		50
Biphenyl	93		76		37-127	20		50
4-Chloroaniline	41		48		40-140	16		50
2-Nitroaniline	116		95		47-134	20		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2164557

Report Date: 12/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1575863-2 WG1575863-3								
3-Nitroaniline	80		66		26-129	19		50
4-Nitroaniline	106		85		41-125	22		50
Dibenzofuran	90		71		40-140	24		50
2-Methylnaphthalene	88		72		40-140	20		50
1,2,4,5-Tetrachlorobenzene	89		73		40-117	20		50
Acetophenone	82		68		14-144	19		50
2,4,6-Trichlorophenol	99		83		30-130	18		50
p-Chloro-m-cresol	93		75		26-103	21		50
2-Chlorophenol	95		79		25-102	18		50
2,4-Dichlorophenol	96		80		30-130	18		50
2,4-Dimethylphenol	91		74		30-130	21		50
2-Nitrophenol	130		108		30-130	18		50
4-Nitrophenol	104		80		11-114	26		50
2,4-Dinitrophenol	102		83		4-130	21		50
4,6-Dinitro-o-cresol	122		102		10-130	18		50
Pentachlorophenol	78		64		17-109	20		50
Phenol	84		69		26-90	20		50
2-Methylphenol	91		74		30-130.	21		50
3-Methylphenol/4-Methylphenol	89		73		30-130	20		50
2,4,5-Trichlorophenol	104		85		30-130	20		50
Benzoic Acid	25		12		10-110	**70**	Q	50
Benzyl Alcohol	85		69		40-140	21		50
Carbazole	94		74		54-128	24		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2164557

Report Date: 12/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1575863-2 WG1575863-3								
1,4-Dioxane	59		47		40-140	23		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	92		74		25-120
Phenol-d6	90		71		10-120
Nitrobenzene-d5	89		71		23-120
2-Fluorobiphenyl	84		70		30-120
2,4,6-Tribromophenol	98		76		10-136
4-Terphenyl-d14	90		70		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2164557

Report Date: 12/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1574859-3 QC Sample: L2164557-01 Client ID: EP01_1												
Perfluorobutanoic Acid (PFBA)	ND	5.25	5.00	95		-	-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	ND	5.25	5.04	96		-	-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.66	4.44	95		-	-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	ND	5.25	4.96	94		-	-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.25	5.10	97		-	-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.8	4.77	99		-	-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	ND	5.25	5.08	97		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5	4.86	97		-	-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5	4.95	99		-	-		70-132	-		30
Perfluorononanoic Acid (PFNA)	ND	5.25	5.05	96		-	-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	0.382	4.87	5.75	110		-	-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	ND	5.25	5.03	96		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.04	3.46	69		-	-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.25	5.40	103		-	-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.25	5.30	101		-	-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.06	4.49	89		-	-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	ND	5.25	4.59	87		-	-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.25	6.07	116		-	-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	ND	5.25	5.07	97		-	-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	ND	5.25	6.08	116		-	-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.25	5.28	101		-	-		69-133	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2164557

Report Date: 12/08/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1574859-3 QC Sample: L2164557-01 Client ID: EP01_1

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**236**	Q			19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**165**	Q			20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	53				34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	66				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	74				61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	**71**	Q			75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	**59**	Q			66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	**64**	Q			71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	79				78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	60				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	28				24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	68				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	91				58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**4**	Q			10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	**71**	Q			79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	**68**	Q			75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	77				72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	76				74-139

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1574859-4 QC Sample: L2164557-02 Client ID: EP02_1						
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/g	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	81		85		10-117

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1574859-4 QC Sample: L2164557-02 Client ID: EP02_1						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/g	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/g	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/g	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/g	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/g	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/g	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/g	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/g	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonic Acid (PFOS)	0.145J	ND	ng/g	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/g	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/g	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/g	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/g	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/g	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/g	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/g	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/g	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1574859-4 QC Sample: L2164557-02 Client ID: EP02_1

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		97		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	120		126		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	87		99		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	77		82		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	83		89		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	91		96		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**182**	Q	**198**	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	96		99		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	88		101		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	88		95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**302**	Q	**299**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	90		103		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	97		107		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	77		97		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	73		87		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	54		58		24-159

PCBS

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-01
Client ID: EP01_1
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:00
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/27/21 14:52
Analyst: WR
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 11/26/21 16:36
Cleanup Method: EPA 3665A
Cleanup Date: 11/27/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.1	3.30	1	A
Aroclor 1221	ND		ug/kg	37.1	3.72	1	A
Aroclor 1232	ND		ug/kg	37.1	7.87	1	A
Aroclor 1242	ND		ug/kg	37.1	5.00	1	A
Aroclor 1248	ND		ug/kg	37.1	5.57	1	A
Aroclor 1254	ND		ug/kg	37.1	4.06	1	A
Aroclor 1260	ND		ug/kg	37.1	6.86	1	A
Aroclor 1262	ND		ug/kg	37.1	4.71	1	A
Aroclor 1268	ND		ug/kg	37.1	3.84	1	A
PCBs, Total	ND		ug/kg	37.1	3.30	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-02
Client ID: EP02_1
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:10
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/27/21 14:59
Analyst: WR
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 11/26/21 16:36
Cleanup Method: EPA 3665A
Cleanup Date: 11/27/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.0	3.37	1	A
Aroclor 1221	ND		ug/kg	38.0	3.81	1	A
Aroclor 1232	ND		ug/kg	38.0	8.05	1	A
Aroclor 1242	ND		ug/kg	38.0	5.12	1	A
Aroclor 1248	ND		ug/kg	38.0	5.70	1	A
Aroclor 1254	ND		ug/kg	38.0	4.16	1	A
Aroclor 1260	ND		ug/kg	38.0	7.02	1	A
Aroclor 1262	ND		ug/kg	38.0	4.82	1	A
Aroclor 1268	ND		ug/kg	38.0	3.94	1	A
PCBs, Total	ND		ug/kg	38.0	3.37	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-03
Client ID: EP09_1
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:20
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/27/21 15:06
Analyst: WR
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 11/26/21 16:36
Cleanup Method: EPA 3665A
Cleanup Date: 11/27/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.2	3.49	1	A
Aroclor 1221	ND		ug/kg	39.2	3.93	1	A
Aroclor 1232	ND		ug/kg	39.2	8.32	1	A
Aroclor 1242	ND		ug/kg	39.2	5.29	1	A
Aroclor 1248	ND		ug/kg	39.2	5.89	1	A
Aroclor 1254	ND		ug/kg	39.2	4.29	1	A
Aroclor 1260	ND		ug/kg	39.2	7.25	1	A
Aroclor 1262	ND		ug/kg	39.2	4.98	1	A
Aroclor 1268	ND		ug/kg	39.2	4.07	1	A
PCBs, Total	ND		ug/kg	39.2	3.49	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-04
Client ID: EPSW03_-3
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:30
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/27/21 15:13
Analyst: WR
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 11/26/21 16:36
Cleanup Method: EPA 3665A
Cleanup Date: 11/27/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.6	3.52	1	A
Aroclor 1221	ND		ug/kg	39.6	3.97	1	A
Aroclor 1232	ND		ug/kg	39.6	8.40	1	A
Aroclor 1242	ND		ug/kg	39.6	5.34	1	A
Aroclor 1248	ND		ug/kg	39.6	5.94	1	A
Aroclor 1254	ND		ug/kg	39.6	4.34	1	A
Aroclor 1260	ND		ug/kg	39.6	7.32	1	A
Aroclor 1262	ND		ug/kg	39.6	5.03	1	A
Aroclor 1268	ND		ug/kg	39.6	4.10	1	A
PCBs, Total	ND		ug/kg	39.6	3.52	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-05
Client ID: EPSW04_-3
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:40
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/27/21 15:20
Analyst: WR
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 11/26/21 16:36
Cleanup Method: EPA 3665A
Cleanup Date: 11/27/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.9	3.63	1	A
Aroclor 1221	ND		ug/kg	40.9	4.10	1	A
Aroclor 1232	ND		ug/kg	40.9	8.67	1	A
Aroclor 1242	ND		ug/kg	40.9	5.51	1	A
Aroclor 1248	ND		ug/kg	40.9	6.14	1	A
Aroclor 1254	ND		ug/kg	40.9	4.47	1	A
Aroclor 1260	ND		ug/kg	40.9	7.56	1	A
Aroclor 1262	ND		ug/kg	40.9	5.19	1	A
Aroclor 1268	ND		ug/kg	40.9	4.24	1	A
PCBs, Total	ND		ug/kg	40.9	3.63	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-06
Client ID: EPSW05_-3
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:50
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/27/21 15:27
Analyst: WR
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 11/26/21 17:40
Cleanup Method: EPA 3665A
Cleanup Date: 11/27/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.2	3.48	1	A
Aroclor 1221	ND		ug/kg	39.2	3.93	1	A
Aroclor 1232	ND		ug/kg	39.2	8.31	1	A
Aroclor 1242	ND		ug/kg	39.2	5.29	1	A
Aroclor 1248	ND		ug/kg	39.2	5.88	1	A
Aroclor 1254	ND		ug/kg	39.2	4.29	1	A
Aroclor 1260	ND		ug/kg	39.2	7.25	1	A
Aroclor 1262	ND		ug/kg	39.2	4.98	1	A
Aroclor 1268	ND		ug/kg	39.2	4.06	1	A
PCBs, Total	ND		ug/kg	39.2	3.48	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 11/27/21 12:07
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 11/26/21 16:36
Cleanup Method: EPA 3665A
Cleanup Date: 11/27/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-06 Batch: WG1576130-1						
Aroclor 1016	ND		ug/kg	31.3	2.78	A
Aroclor 1221	ND		ug/kg	31.3	3.14	A
Aroclor 1232	ND		ug/kg	31.3	6.63	A
Aroclor 1242	ND		ug/kg	31.3	4.22	A
Aroclor 1248	ND		ug/kg	31.3	4.69	A
Aroclor 1254	ND		ug/kg	31.3	3.42	A
Aroclor 1260	ND		ug/kg	31.3	5.78	A
Aroclor 1262	ND		ug/kg	31.3	3.97	A
Aroclor 1268	ND		ug/kg	31.3	3.24	A
PCBs, Total	ND		ug/kg	31.3	2.78	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	57		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2164557

Report Date: 12/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG1576130-2 WG1576130-3									
Aroclor 1016	69		74		40-140	7		50	A
Aroclor 1260	65		69		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		69		30-150	A
Decachlorobiphenyl	68		71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		66		30-150	B
Decachlorobiphenyl	62		61		30-150	B

PESTICIDES

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-01
Client ID: EP01_1
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:00
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/27/21 15:58
Analyst: JAW
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 11/26/21 17:55
Cleanup Method: EPA 3620B
Cleanup Date: 11/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.88	0.368	1	A
Lindane	ND		ug/kg	0.782	0.350	1	A
Alpha-BHC	ND		ug/kg	0.782	0.222	1	A
Beta-BHC	ND		ug/kg	1.88	0.712	1	A
Heptachlor	ND		ug/kg	0.938	0.421	1	A
Aldrin	ND		ug/kg	1.88	0.661	1	A
Heptachlor epoxide	ND		ug/kg	3.52	1.06	1	A
Endrin	ND		ug/kg	0.782	0.321	1	A
Endrin aldehyde	ND		ug/kg	2.34	0.821	1	A
Endrin ketone	ND		ug/kg	1.88	0.483	1	A
Dieldrin	ND		ug/kg	1.17	0.586	1	A
4,4'-DDE	ND		ug/kg	1.88	0.434	1	A
4,4'-DDD	ND		ug/kg	1.88	0.669	1	A
4,4'-DDT	ND		ug/kg	3.52	1.51	1	A
Endosulfan I	ND		ug/kg	1.88	0.443	1	A
Endosulfan II	ND		ug/kg	1.88	0.627	1	A
Endosulfan sulfate	ND		ug/kg	0.782	0.372	1	A
Methoxychlor	ND		ug/kg	3.52	1.09	1	A
Toxaphene	ND		ug/kg	35.2	9.85	1	A
cis-Chlordane	ND		ug/kg	2.34	0.654	1	A
trans-Chlordane	ND		ug/kg	2.34	0.619	1	A
Chlordane	ND		ug/kg	15.6	6.22	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-01 Date Collected: 11/22/21 12:00

Client ID: EP01_1 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-01
Client ID: EP01_1
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:00
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/25/21 20:11
Analyst: EJL
Percent Solids: 85%
Methylation Date: 11/25/21 06:14

Extraction Method: EPA 8151A
Extraction Date: 11/24/21 01:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	193	12.2	1	A
2,4,5-T	ND		ug/kg	193	5.99	1	A
2,4,5-TP (Silvex)	ND		ug/kg	193	5.14	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	96		30-150	A
DCAA	83		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-02
Client ID: EP02_1
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:10
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/27/21 16:09
Analyst: JAW
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 11/26/21 17:55
Cleanup Method: EPA 3620B
Cleanup Date: 11/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.80	0.352	1	A
Lindane	ND		ug/kg	0.748	0.334	1	A
Alpha-BHC	ND		ug/kg	0.748	0.212	1	A
Beta-BHC	ND		ug/kg	1.80	0.681	1	A
Heptachlor	ND		ug/kg	0.898	0.402	1	A
Aldrin	ND		ug/kg	1.80	0.632	1	A
Heptachlor epoxide	ND		ug/kg	3.36	1.01	1	A
Endrin	ND		ug/kg	0.748	0.307	1	A
Endrin aldehyde	ND		ug/kg	2.24	0.785	1	A
Endrin ketone	ND		ug/kg	1.80	0.462	1	A
Dieldrin	ND		ug/kg	1.12	0.561	1	A
4,4'-DDE	ND		ug/kg	1.80	0.415	1	A
4,4'-DDD	ND		ug/kg	1.80	0.640	1	A
4,4'-DDT	ND		ug/kg	3.36	1.44	1	A
Endosulfan I	ND		ug/kg	1.80	0.424	1	A
Endosulfan II	ND		ug/kg	1.80	0.600	1	A
Endosulfan sulfate	ND		ug/kg	0.748	0.356	1	A
Methoxychlor	ND		ug/kg	3.36	1.05	1	A
Toxaphene	ND		ug/kg	33.6	9.42	1	A
cis-Chlordane	ND		ug/kg	2.24	0.625	1	A
trans-Chlordane	ND		ug/kg	2.24	0.592	1	A
Chlordane	ND		ug/kg	15.0	5.95	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-02 Date Collected: 11/22/21 12:10

Client ID: EP02_1 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-02
Client ID: EP02_1
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:10
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/27/21 16:00
Analyst: AR
Percent Solids: 86%
Methylation Date: 11/25/21 16:45

Extraction Method: EPA 8151A
Extraction Date: 11/24/21 01:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	192	12.1	1	A
2,4,5-T	ND		ug/kg	192	5.96	1	A
2,4,5-TP (Silvex)	ND		ug/kg	192	5.12	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	70		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-03
Client ID: EP09_1
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:20
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/27/21 16:43
Analyst: JAW
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 11/26/21 17:55
Cleanup Method: EPA 3620B
Cleanup Date: 11/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.90	0.372	1	A
Lindane	ND		ug/kg	0.792	0.354	1	A
Alpha-BHC	ND		ug/kg	0.792	0.225	1	A
Beta-BHC	ND		ug/kg	1.90	0.721	1	A
Heptachlor	ND		ug/kg	0.950	0.426	1	A
Aldrin	ND		ug/kg	1.90	0.669	1	A
Heptachlor epoxide	ND		ug/kg	3.56	1.07	1	A
Endrin	ND		ug/kg	0.792	0.325	1	A
Endrin aldehyde	ND		ug/kg	2.38	0.831	1	A
Endrin ketone	ND		ug/kg	1.90	0.489	1	A
Dieldrin	ND		ug/kg	1.19	0.594	1	A
4,4'-DDE	ND		ug/kg	1.90	0.439	1	A
4,4'-DDD	ND		ug/kg	1.90	0.678	1	A
4,4'-DDT	ND		ug/kg	3.56	1.53	1	A
Endosulfan I	ND		ug/kg	1.90	0.449	1	A
Endosulfan II	ND		ug/kg	1.90	0.635	1	A
Endosulfan sulfate	ND		ug/kg	0.792	0.377	1	A
Methoxychlor	ND		ug/kg	3.56	1.11	1	A
Toxaphene	ND		ug/kg	35.6	9.98	1	A
cis-Chlordane	ND		ug/kg	2.38	0.662	1	A
trans-Chlordane	ND		ug/kg	2.38	0.627	1	A
Chlordane	ND		ug/kg	15.8	6.30	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-03 Date Collected: 11/22/21 12:20

Client ID: EP09_1 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	109		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	90		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-03
Client ID: EP09_1
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:20
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/25/21 20:30
Analyst: EJL
Percent Solids: 83%
Methylation Date: 11/25/21 06:14

Extraction Method: EPA 8151A
Extraction Date: 11/24/21 01:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	198	12.5	1	A
2,4,5-T	ND		ug/kg	198	6.15	1	A
2,4,5-TP (Silvex)	ND		ug/kg	198	5.28	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	98		30-150	A
DCAA	88		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-04
Client ID: EPSW03_-3
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:30
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/27/21 16:20
Analyst: JAW
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 11/26/21 17:56
Cleanup Method: EPA 3620B
Cleanup Date: 11/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.96	0.383	1	A
Lindane	ND		ug/kg	0.815	0.364	1	A
Alpha-BHC	ND		ug/kg	0.815	0.232	1	A
Beta-BHC	ND		ug/kg	1.96	0.742	1	A
Heptachlor	ND		ug/kg	0.978	0.438	1	A
Aldrin	ND		ug/kg	1.96	0.689	1	A
Heptachlor epoxide	ND		ug/kg	3.67	1.10	1	A
Endrin	ND		ug/kg	0.815	0.334	1	A
Endrin aldehyde	ND		ug/kg	2.44	0.856	1	A
Endrin ketone	ND		ug/kg	1.96	0.504	1	A
Dieldrin	ND		ug/kg	1.22	0.611	1	A
4,4'-DDE	ND		ug/kg	1.96	0.452	1	A
4,4'-DDD	ND		ug/kg	1.96	0.698	1	A
4,4'-DDT	ND		ug/kg	3.67	1.57	1	A
Endosulfan I	ND		ug/kg	1.96	0.462	1	A
Endosulfan II	ND		ug/kg	1.96	0.654	1	A
Endosulfan sulfate	ND		ug/kg	0.815	0.388	1	A
Methoxychlor	ND		ug/kg	3.67	1.14	1	A
Toxaphene	ND		ug/kg	36.7	10.3	1	A
cis-Chlordane	ND		ug/kg	2.44	0.681	1	A
trans-Chlordane	ND		ug/kg	2.44	0.646	1	A
Chlordane	ND		ug/kg	16.3	6.48	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-04 Date Collected: 11/22/21 12:30

Client ID: EPSW03_-3 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-04
Client ID: EPSW03_-3
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:30
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/27/21 16:19
Analyst: AR
Percent Solids: 79%
Methylation Date: 11/25/21 16:45

Extraction Method: EPA 8151A
Extraction Date: 11/24/21 01:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	209	13.1	1	A
2,4,5-T	ND		ug/kg	209	6.47	1	A
2,4,5-TP (Silvex)	ND		ug/kg	209	5.55	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	73		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2164557
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-05
Client ID: EPSW04_-3
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:40
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/27/21 16:32
Analyst: JAW
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 11/26/21 17:56
Cleanup Method: EPA 3620B
Cleanup Date: 11/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.89	0.370	1	A
Lindane	ND		ug/kg	0.786	0.351	1	A
Alpha-BHC	ND		ug/kg	0.786	0.223	1	A
Beta-BHC	ND		ug/kg	1.89	0.716	1	A
Heptachlor	ND		ug/kg	0.944	0.423	1	A
Aldrin	ND		ug/kg	1.89	0.664	1	A
Heptachlor epoxide	ND		ug/kg	3.54	1.06	1	A
Endrin	ND		ug/kg	0.786	0.322	1	A
Endrin aldehyde	ND		ug/kg	2.36	0.826	1	A
Endrin ketone	ND		ug/kg	1.89	0.486	1	A
Dieldrin	ND		ug/kg	1.18	0.590	1	A
4,4'-DDE	ND		ug/kg	1.89	0.436	1	A
4,4'-DDD	ND		ug/kg	1.89	0.673	1	A
4,4'-DDT	ND		ug/kg	3.54	1.52	1	A
Endosulfan I	ND		ug/kg	1.89	0.446	1	A
Endosulfan II	ND		ug/kg	1.89	0.631	1	A
Endosulfan sulfate	ND		ug/kg	0.786	0.374	1	A
Methoxychlor	ND		ug/kg	3.54	1.10	1	A
Toxaphene	ND		ug/kg	35.4	9.91	1	A
cis-Chlordane	ND		ug/kg	2.36	0.657	1	A
trans-Chlordane	ND		ug/kg	2.36	0.623	1	A
Chlordane	ND		ug/kg	15.7	6.25	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-05 Date Collected: 11/22/21 12:40

Client ID: EPSW04_-3 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	95		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-05
Client ID: EPSW04_-3
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:40
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/25/21 20:48
Analyst: EJL
Percent Solids: 81%
Methylation Date: 11/25/21 06:14

Extraction Method: EPA 8151A
Extraction Date: 11/24/21 01:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	203	12.8	1	A
2,4,5-T	ND		ug/kg	203	6.30	1	A
2,4,5-TP (Silvex)	ND		ug/kg	203	5.41	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	96		30-150	A
DCAA	89		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2164557
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-06
Client ID: EPSW05_-3
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:50
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/27/21 16:54
Analyst: JAW
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 11/26/21 17:56
Cleanup Method: EPA 3620B
Cleanup Date: 11/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.94	0.380	1	A
Lindane	ND		ug/kg	0.808	0.361	1	A
Alpha-BHC	ND		ug/kg	0.808	0.230	1	A
Beta-BHC	ND		ug/kg	1.94	0.736	1	A
Heptachlor	ND		ug/kg	0.970	0.435	1	A
Aldrin	ND		ug/kg	1.94	0.683	1	A
Heptachlor epoxide	ND		ug/kg	3.64	1.09	1	A
Endrin	ND		ug/kg	0.808	0.331	1	A
Endrin aldehyde	ND		ug/kg	2.42	0.849	1	A
Endrin ketone	ND		ug/kg	1.94	0.500	1	A
Dieldrin	ND		ug/kg	1.21	0.606	1	A
4,4'-DDE	ND		ug/kg	1.94	0.449	1	A
4,4'-DDD	ND		ug/kg	1.94	0.692	1	A
4,4'-DDT	ND		ug/kg	3.64	1.56	1	A
Endosulfan I	ND		ug/kg	1.94	0.458	1	A
Endosulfan II	ND		ug/kg	1.94	0.648	1	A
Endosulfan sulfate	ND		ug/kg	0.808	0.385	1	A
Methoxychlor	ND		ug/kg	3.64	1.13	1	A
Toxaphene	ND		ug/kg	36.4	10.2	1	A
cis-Chlordane	ND		ug/kg	2.42	0.676	1	A
trans-Chlordane	ND		ug/kg	2.42	0.640	1	A
Chlordane	ND		ug/kg	16.2	6.43	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-06 Date Collected: 11/22/21 12:50

Client ID: EPSW05_-3 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	103		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	88		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-06
Client ID: EPSW05_-3
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:50
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/25/21 21:07
Analyst: EJL
Percent Solids: 81%
Methylation Date: 11/25/21 06:14

Extraction Method: EPA 8151A
Extraction Date: 11/24/21 01:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	205	12.9	1	A
2,4,5-T	ND		ug/kg	205	6.34	1	A
2,4,5-TP (Silvex)	ND		ug/kg	205	5.44	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	84		30-150	B

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-07
Client ID: EPSW06_-7.5
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 13:00
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/23/21 12:12
Analyst: SDC
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 11/23/21 05:47
Cleanup Method: EPA 3620B
Cleanup Date: 11/23/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.02	0.396	1	A
Lindane	ND		ug/kg	0.843	0.377	1	A
Alpha-BHC	ND		ug/kg	0.843	0.240	1	A
Beta-BHC	ND		ug/kg	2.02	0.768	1	A
Heptachlor	ND		ug/kg	1.01	0.454	1	A
Aldrin	ND		ug/kg	2.02	0.713	1	A
Heptachlor epoxide	ND		ug/kg	3.80	1.14	1	A
Endrin	ND		ug/kg	0.843	0.346	1	A
Endrin aldehyde	ND		ug/kg	2.53	0.886	1	A
Endrin ketone	ND		ug/kg	2.02	0.521	1	A
Dieldrin	ND		ug/kg	1.26	0.632	1	A
4,4'-DDE	1.23	J	ug/kg	2.02	0.468	1	B
4,4'-DDD	1.77	J	ug/kg	2.02	0.722	1	B
4,4'-DDT	2.38	J	ug/kg	3.80	1.63	1	B
Endosulfan I	ND		ug/kg	2.02	0.478	1	A
Endosulfan II	ND		ug/kg	2.02	0.676	1	A
Endosulfan sulfate	ND		ug/kg	0.843	0.401	1	A
Methoxychlor	ND		ug/kg	3.80	1.18	1	A
Toxaphene	ND		ug/kg	38.0	10.6	1	A
cis-Chlordane	ND		ug/kg	2.53	0.705	1	A
trans-Chlordane	ND		ug/kg	2.53	0.668	1	A
Chlordane	ND		ug/kg	16.9	6.70	1	A

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-07 Date Collected: 11/22/21 13:00

Client ID: EPSW06_-7.5 Date Received: 11/22/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	102		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/23/21 12:23
Analyst: SDC

Extraction Method: EPA 3546
Extraction Date: 11/23/21 05:47
Cleanup Method: EPA 3620B
Cleanup Date: 11/23/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 07 Batch: WG1574831-1						
Delta-BHC	ND		ug/kg	1.51	0.296	A
Lindane	ND		ug/kg	0.630	0.281	A
Alpha-BHC	ND		ug/kg	0.630	0.179	A
Beta-BHC	ND		ug/kg	1.51	0.573	A
Heptachlor	ND		ug/kg	0.756	0.339	A
Aldrin	ND		ug/kg	1.51	0.532	A
Heptachlor epoxide	ND		ug/kg	2.83	0.850	A
Endrin	ND		ug/kg	0.630	0.258	A
Endrin aldehyde	ND		ug/kg	1.89	0.661	A
Endrin ketone	ND		ug/kg	1.51	0.389	A
Dieldrin	ND		ug/kg	0.944	0.472	A
4,4'-DDE	ND		ug/kg	1.51	0.349	A
4,4'-DDD	ND		ug/kg	1.51	0.539	A
4,4'-DDT	ND		ug/kg	2.83	1.22	A
Endosulfan I	ND		ug/kg	1.51	0.357	A
Endosulfan II	ND		ug/kg	1.51	0.505	A
Endosulfan sulfate	ND		ug/kg	0.630	0.300	A
Methoxychlor	ND		ug/kg	2.83	0.882	A
Toxaphene	ND		ug/kg	28.3	7.93	A
cis-Chlordane	ND		ug/kg	1.89	0.526	A
trans-Chlordane	ND		ug/kg	1.89	0.499	A
Chlordane	ND		ug/kg	12.6	5.01	A

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/23/21 12:23
Analyst: SDC

Extraction Method: EPA 3546
Extraction Date: 11/23/21 05:47
Cleanup Method: EPA 3620B
Cleanup Date: 11/23/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 07 Batch: WG1574831-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	98		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 11/25/21 09:42
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 11/24/21 01:18

Methylation Date: 11/25/21 06:14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-06 Batch: WG1575345-1						
2,4-D	ND		ug/kg	164	10.3	A
2,4,5-T	ND		ug/kg	164	5.09	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.37	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	91		30-150	A
DCAA	86		30-150	B

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/27/21 17:05
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 11/26/21 17:55
Cleanup Method: EPA 3620B
Cleanup Date: 11/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-06 Batch: WG1576146-1						
Delta-BHC	ND		ug/kg	1.51	0.296	A
Lindane	ND		ug/kg	0.630	0.282	A
Alpha-BHC	ND		ug/kg	0.630	0.179	A
Beta-BHC	ND		ug/kg	1.51	0.573	A
Heptachlor	ND		ug/kg	0.756	0.339	A
Aldrin	ND		ug/kg	1.51	0.532	A
Heptachlor epoxide	ND		ug/kg	2.84	0.851	A
Endrin	ND		ug/kg	0.630	0.258	A
Endrin aldehyde	ND		ug/kg	1.89	0.662	A
Endrin ketone	ND		ug/kg	1.51	0.389	A
Dieldrin	ND		ug/kg	0.945	0.472	A
4,4'-DDE	ND		ug/kg	1.51	0.350	A
4,4'-DDD	ND		ug/kg	1.51	0.539	A
4,4'-DDT	ND		ug/kg	2.84	1.22	A
Endosulfan I	ND		ug/kg	1.51	0.357	A
Endosulfan II	ND		ug/kg	1.51	0.505	A
Endosulfan sulfate	ND		ug/kg	0.630	0.300	A
Methoxychlor	ND		ug/kg	2.84	0.882	A
Toxaphene	ND		ug/kg	28.4	7.94	A
cis-Chlordane	ND		ug/kg	1.89	0.527	A
trans-Chlordane	ND		ug/kg	1.89	0.499	A
Chlordane	ND		ug/kg	12.6	5.01	A

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/27/21 17:05
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 11/26/21 17:55
Cleanup Method: EPA 3620B
Cleanup Date: 11/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-06 Batch: WG1576146-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	66		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2164557

Report Date: 12/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07 Batch: WG1574831-2 WG1574831-3									
Delta-BHC	77		84		30-150	9		30	A
Lindane	94		102		30-150	8		30	A
Alpha-BHC	86		94		30-150	9		30	A
Beta-BHC	94		100		30-150	6		30	A
Heptachlor	99		107		30-150	8		30	A
Aldrin	90		98		30-150	9		30	A
Heptachlor epoxide	80		97		30-150	19		30	A
Endrin	96		102		30-150	6		30	A
Endrin aldehyde	66		68		30-150	3		30	A
Endrin ketone	97		105		30-150	8		30	A
Dieldrin	97		104		30-150	7		30	A
4,4'-DDE	89		97		30-150	9		30	A
4,4'-DDD	102		108		30-150	6		30	A
4,4'-DDT	98		100		30-150	2		30	A
Endosulfan I	85		92		30-150	8		30	A
Endosulfan II	92		99		30-150	7		30	A
Endosulfan sulfate	80		83		30-150	4		30	A
Methoxychlor	95		102		30-150	7		30	A
cis-Chlordane	76		82		30-150	8		30	A
trans-Chlordane	87		97		30-150	11		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2164557

Report Date: 12/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07 Batch: WG1574831-2 WG1574831-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		83		30-150	A
Decachlorobiphenyl	88		110		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		90		30-150	B
Decachlorobiphenyl	101		112		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG1575345-2 WG1575345-3									
2,4-D	91		84		30-150	8		30	A
2,4,5-T	92		85		30-150	8		30	A
2,4,5-TP (Silvex)	95		87		30-150	9		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	99		91		30-150	A
DCAA	92		84		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2164557

Report Date: 12/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG1576146-2 WG1576146-3									
Delta-BHC	78		82		30-150	5		30	A
Lindane	93		88		30-150	6		30	A
Alpha-BHC	75		72		30-150	4		30	A
Beta-BHC	92		85		30-150	8		30	A
Heptachlor	93		95		30-150	2		30	A
Aldrin	82		90		30-150	9		30	A
Heptachlor epoxide	73		80		30-150	9		30	A
Endrin	91		95		30-150	4		30	A
Endrin aldehyde	52		54		30-150	4		30	A
Endrin ketone	75		83		30-150	10		30	A
Dieldrin	93		97		30-150	4		30	A
4,4'-DDE	80		85		30-150	6		30	A
4,4'-DDD	104		110		30-150	6		30	A
4,4'-DDT	95		100		30-150	5		30	A
Endosulfan I	78		81		30-150	4		30	A
Endosulfan II	89		95		30-150	7		30	A
Endosulfan sulfate	79		86		30-150	8		30	A
Methoxychlor	92		103		30-150	11		30	A
cis-Chlordane	63		64		30-150	2		30	A
trans-Chlordane	101		99		30-150	2		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2164557

Report Date: 12/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG1576146-2 WG1576146-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		86		30-150	A
Decachlorobiphenyl	88		101		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		82		30-150	B
Decachlorobiphenyl	88		84		30-150	B

METALS

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-01
Client ID: EP01_1
Sample Location: BROOKLYN, NY
Date Collected: 11/22/21 12:00
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	494		mg/kg	9.01	2.43	2	11/27/21 08:20	11/30/21 15:30	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.51	0.342	2	11/27/21 08:20	11/30/21 15:30	EPA 3050B	1,6010D	DL
Arsenic, Total	0.360	J	mg/kg	0.901	0.188	2	11/27/21 08:20	11/30/21 15:30	EPA 3050B	1,6010D	DL
Barium, Total	4.57		mg/kg	0.901	0.157	2	11/27/21 08:20	11/30/21 15:30	EPA 3050B	1,6010D	DL
Beryllium, Total	0.036	J	mg/kg	0.451	0.030	2	11/27/21 08:20	11/30/21 15:30	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.901	0.088	2	11/27/21 08:20	11/30/21 15:30	EPA 3050B	1,6010D	DL
Calcium, Total	283		mg/kg	9.01	3.16	2	11/27/21 08:20	11/30/21 15:30	EPA 3050B	1,6010D	DL
Chromium, Total	6.20		mg/kg	0.901	0.087	2	11/27/21 08:20	11/30/21 15:30	EPA 3050B	1,6010D	DL
Cobalt, Total	0.469	J	mg/kg	1.80	0.150	2	11/27/21 08:20	11/30/21 15:30	EPA 3050B	1,6010D	DL
Copper, Total	1.24		mg/kg	0.901	0.232	2	11/27/21 08:20	11/30/21 15:30	EPA 3050B	1,6010D	DL
Iron, Total	880		mg/kg	4.51	0.814	2	11/27/21 08:20	11/30/21 15:30	EPA 3050B	1,6010D	DL
Lead, Total	1.33	J	mg/kg	4.51	0.242	2	11/27/21 08:20	11/30/21 15:30	EPA 3050B	1,6010D	DL
Magnesium, Total	210		mg/kg	9.01	1.39	2	11/27/21 08:20	11/30/21 15:30	EPA 3050B	1,6010D	DL
Manganese, Total	10.6		mg/kg	0.901	0.143	2	11/27/21 08:20	11/30/21 15:30	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.075	0.049	1	11/27/21 09:35	11/27/21 14:25	EPA 7471B	1,7471B	NB
Nickel, Total	1.77	J	mg/kg	2.25	0.218	2	11/27/21 08:20	11/30/21 15:30	EPA 3050B	1,6010D	DL
Potassium, Total	104	J	mg/kg	225	13.0	2	11/27/21 08:20	11/30/21 15:30	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	1.80	0.232	2	11/27/21 08:20	11/30/21 15:30	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.901	0.255	2	11/27/21 08:20	11/30/21 15:30	EPA 3050B	1,6010D	DL
Sodium, Total	24.0	J	mg/kg	180	2.84	2	11/27/21 08:20	11/30/21 15:30	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.80	0.284	2	11/27/21 08:20	11/30/21 15:30	EPA 3050B	1,6010D	DL
Vanadium, Total	2.27		mg/kg	0.901	0.183	2	11/27/21 08:20	11/30/21 15:30	EPA 3050B	1,6010D	DL
Zinc, Total	38.0		mg/kg	4.51	0.264	2	11/27/21 08:20	11/30/21 15:30	EPA 3050B	1,6010D	DL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	6.2		mg/kg	0.94	0.94	1		11/30/21 15:30	NA	107,-	

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-02
Client ID: EP02_1
Sample Location: BROOKLYN, NY
Date Collected: 11/22/21 12:10
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	612		mg/kg	9.01	2.43	2	11/27/21 08:20	11/30/21 15:16	EPA 3050B	1,6010D	DL
Antimony, Total	0.874	J	mg/kg	4.51	0.342	2	11/27/21 08:20	11/30/21 15:16	EPA 3050B	1,6010D	DL
Arsenic, Total	0.496	J	mg/kg	0.901	0.187	2	11/27/21 08:20	11/30/21 15:16	EPA 3050B	1,6010D	DL
Barium, Total	3.87		mg/kg	0.901	0.157	2	11/27/21 08:20	11/30/21 15:16	EPA 3050B	1,6010D	DL
Beryllium, Total	ND		mg/kg	0.451	0.030	2	11/27/21 08:20	11/30/21 15:16	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.901	0.088	2	11/27/21 08:20	11/30/21 15:16	EPA 3050B	1,6010D	DL
Calcium, Total	286		mg/kg	9.01	3.15	2	11/27/21 08:20	11/30/21 15:16	EPA 3050B	1,6010D	DL
Chromium, Total	2.73		mg/kg	0.901	0.087	2	11/27/21 08:20	11/30/21 15:16	EPA 3050B	1,6010D	DL
Cobalt, Total	0.532	J	mg/kg	1.80	0.150	2	11/27/21 08:20	11/30/21 15:16	EPA 3050B	1,6010D	DL
Copper, Total	1.10		mg/kg	0.901	0.232	2	11/27/21 08:20	11/30/21 15:16	EPA 3050B	1,6010D	DL
Iron, Total	983		mg/kg	4.51	0.814	2	11/27/21 08:20	11/30/21 15:16	EPA 3050B	1,6010D	DL
Lead, Total	2.06	J	mg/kg	4.51	0.242	2	11/27/21 08:20	11/30/21 15:16	EPA 3050B	1,6010D	DL
Magnesium, Total	259		mg/kg	9.01	1.39	2	11/27/21 08:20	11/30/21 15:16	EPA 3050B	1,6010D	DL
Manganese, Total	12.3		mg/kg	0.901	0.143	2	11/27/21 08:20	11/30/21 15:16	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.074	0.048	1	11/27/21 09:35	11/27/21 15:08	EPA 7471B	1,7471B	NB
Nickel, Total	1.33	J	mg/kg	2.25	0.218	2	11/27/21 08:20	11/30/21 15:16	EPA 3050B	1,6010D	DL
Potassium, Total	131	J	mg/kg	225	13.0	2	11/27/21 08:20	11/30/21 15:16	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	1.80	0.232	2	11/27/21 08:20	11/30/21 15:16	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.901	0.255	2	11/27/21 08:20	11/30/21 15:16	EPA 3050B	1,6010D	DL
Sodium, Total	23.8	J	mg/kg	180	2.84	2	11/27/21 08:20	11/30/21 15:16	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.80	0.284	2	11/27/21 08:20	11/30/21 15:16	EPA 3050B	1,6010D	DL
Vanadium, Total	2.38		mg/kg	0.901	0.183	2	11/27/21 08:20	11/30/21 15:16	EPA 3050B	1,6010D	DL
Zinc, Total	34.8		mg/kg	4.51	0.264	2	11/27/21 08:20	11/30/21 15:16	EPA 3050B	1,6010D	DL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.7		mg/kg	0.93	0.93	1		11/30/21 15:16	NA	107,-	

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-03
Client ID: EP09_1
Sample Location: BROOKLYN, NY
Date Collected: 11/22/21 12:20
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	617		mg/kg	9.27	2.50	2	11/27/21 08:20	11/30/21 15:21	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.64	0.352	2	11/27/21 08:20	11/30/21 15:21	EPA 3050B	1,6010D	DL
Arsenic, Total	0.408	J	mg/kg	0.927	0.193	2	11/27/21 08:20	11/30/21 15:21	EPA 3050B	1,6010D	DL
Barium, Total	3.21		mg/kg	0.927	0.161	2	11/27/21 08:20	11/30/21 15:21	EPA 3050B	1,6010D	DL
Beryllium, Total	ND		mg/kg	0.464	0.031	2	11/27/21 08:20	11/30/21 15:21	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.927	0.091	2	11/27/21 08:20	11/30/21 15:21	EPA 3050B	1,6010D	DL
Calcium, Total	290		mg/kg	9.27	3.24	2	11/27/21 08:20	11/30/21 15:21	EPA 3050B	1,6010D	DL
Chromium, Total	2.77		mg/kg	0.927	0.089	2	11/27/21 08:20	11/30/21 15:21	EPA 3050B	1,6010D	DL
Cobalt, Total	0.547	J	mg/kg	1.85	0.154	2	11/27/21 08:20	11/30/21 15:21	EPA 3050B	1,6010D	DL
Copper, Total	0.658	J	mg/kg	0.927	0.239	2	11/27/21 08:20	11/30/21 15:21	EPA 3050B	1,6010D	DL
Iron, Total	1000		mg/kg	4.64	0.837	2	11/27/21 08:20	11/30/21 15:21	EPA 3050B	1,6010D	DL
Lead, Total	1.38	J	mg/kg	4.64	0.248	2	11/27/21 08:20	11/30/21 15:21	EPA 3050B	1,6010D	DL
Magnesium, Total	267		mg/kg	9.27	1.43	2	11/27/21 08:20	11/30/21 15:21	EPA 3050B	1,6010D	DL
Manganese, Total	11.8		mg/kg	0.927	0.147	2	11/27/21 08:20	11/30/21 15:21	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.075	0.049	1	11/27/21 09:35	11/27/21 15:11	EPA 7471B	1,7471B	NB
Nickel, Total	1.32	J	mg/kg	2.32	0.224	2	11/27/21 08:20	11/30/21 15:21	EPA 3050B	1,6010D	DL
Potassium, Total	148	J	mg/kg	232	13.3	2	11/27/21 08:20	11/30/21 15:21	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	1.85	0.239	2	11/27/21 08:20	11/30/21 15:21	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.927	0.262	2	11/27/21 08:20	11/30/21 15:21	EPA 3050B	1,6010D	DL
Sodium, Total	232		mg/kg	185	2.92	2	11/27/21 08:20	11/30/21 15:21	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.85	0.292	2	11/27/21 08:20	11/30/21 15:21	EPA 3050B	1,6010D	DL
Vanadium, Total	2.21		mg/kg	0.927	0.188	2	11/27/21 08:20	11/30/21 15:21	EPA 3050B	1,6010D	DL
Zinc, Total	11.6		mg/kg	4.64	0.272	2	11/27/21 08:20	11/30/21 15:21	EPA 3050B	1,6010D	DL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.8		mg/kg	0.96	0.96	1		11/30/21 15:21	NA	107,-	

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-04
Client ID: EPSW03_-3
Sample Location: BROOKLYN, NY
Date Collected: 11/22/21 12:30
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1140		mg/kg	10.0	2.70	2	11/27/21 08:20	11/30/21 15:26	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	5.00	0.380	2	11/27/21 08:20	11/30/21 15:26	EPA 3050B	1,6010D	DL
Arsenic, Total	0.570	J	mg/kg	1.00	0.208	2	11/27/21 08:20	11/30/21 15:26	EPA 3050B	1,6010D	DL
Barium, Total	5.75		mg/kg	1.00	0.174	2	11/27/21 08:20	11/30/21 15:26	EPA 3050B	1,6010D	DL
Beryllium, Total	0.050	J	mg/kg	0.500	0.033	2	11/27/21 08:20	11/30/21 15:26	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	1.00	0.098	2	11/27/21 08:20	11/30/21 15:26	EPA 3050B	1,6010D	DL
Calcium, Total	199		mg/kg	10.0	3.50	2	11/27/21 08:20	11/30/21 15:26	EPA 3050B	1,6010D	DL
Chromium, Total	3.51		mg/kg	1.00	0.096	2	11/27/21 08:20	11/30/21 15:26	EPA 3050B	1,6010D	DL
Cobalt, Total	0.840	J	mg/kg	2.00	0.166	2	11/27/21 08:20	11/30/21 15:26	EPA 3050B	1,6010D	DL
Copper, Total	1.27		mg/kg	1.00	0.258	2	11/27/21 08:20	11/30/21 15:26	EPA 3050B	1,6010D	DL
Iron, Total	2240		mg/kg	5.00	0.903	2	11/27/21 08:20	11/30/21 15:26	EPA 3050B	1,6010D	DL
Lead, Total	1.27	J	mg/kg	5.00	0.268	2	11/27/21 08:20	11/30/21 15:26	EPA 3050B	1,6010D	DL
Magnesium, Total	637		mg/kg	10.0	1.54	2	11/27/21 08:20	11/30/21 15:26	EPA 3050B	1,6010D	DL
Manganese, Total	15.1		mg/kg	1.00	0.159	2	11/27/21 08:20	11/30/21 15:26	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.080	0.052	1	11/27/21 09:35	11/27/21 15:15	EPA 7471B	1,7471B	NB
Nickel, Total	4.55		mg/kg	2.50	0.242	2	11/27/21 08:20	11/30/21 15:26	EPA 3050B	1,6010D	DL
Potassium, Total	224	J	mg/kg	250	14.4	2	11/27/21 08:20	11/30/21 15:26	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	2.00	0.258	2	11/27/21 08:20	11/30/21 15:26	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	1.00	0.283	2	11/27/21 08:20	11/30/21 15:26	EPA 3050B	1,6010D	DL
Sodium, Total	1100		mg/kg	200	3.15	2	11/27/21 08:20	11/30/21 15:26	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	2.00	0.315	2	11/27/21 08:20	11/30/21 15:26	EPA 3050B	1,6010D	DL
Vanadium, Total	4.65		mg/kg	1.00	0.203	2	11/27/21 08:20	11/30/21 15:26	EPA 3050B	1,6010D	DL
Zinc, Total	33.5		mg/kg	5.00	0.293	2	11/27/21 08:20	11/30/21 15:26	EPA 3050B	1,6010D	DL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	3.5		mg/kg	1.0	1.0	1		11/30/21 15:26	NA	107,-	

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-05
Client ID: EPSW04_-3
Sample Location: BROOKLYN, NY
Date Collected: 11/22/21 12:40
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	706		mg/kg	9.45	2.55	2	11/27/21 08:20	11/30/21 16:02	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.72	0.359	2	11/27/21 08:20	11/30/21 16:02	EPA 3050B	1,6010D	DL
Arsenic, Total	0.331	J	mg/kg	0.945	0.196	2	11/27/21 08:20	11/30/21 16:02	EPA 3050B	1,6010D	DL
Barium, Total	2.56		mg/kg	0.945	0.164	2	11/27/21 08:20	11/30/21 16:02	EPA 3050B	1,6010D	DL
Beryllium, Total	ND		mg/kg	0.472	0.031	2	11/27/21 08:20	11/30/21 16:02	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.945	0.093	2	11/27/21 08:20	11/30/21 16:02	EPA 3050B	1,6010D	DL
Calcium, Total	178		mg/kg	9.45	3.31	2	11/27/21 08:20	11/30/21 16:02	EPA 3050B	1,6010D	DL
Chromium, Total	2.59		mg/kg	0.945	0.091	2	11/27/21 08:20	11/30/21 16:02	EPA 3050B	1,6010D	DL
Cobalt, Total	0.586	J	mg/kg	1.89	0.157	2	11/27/21 08:20	11/30/21 16:02	EPA 3050B	1,6010D	DL
Copper, Total	1.06		mg/kg	0.945	0.244	2	11/27/21 08:20	11/30/21 16:02	EPA 3050B	1,6010D	DL
Iron, Total	1300		mg/kg	4.72	0.853	2	11/27/21 08:20	11/30/21 16:02	EPA 3050B	1,6010D	DL
Lead, Total	1.28	J	mg/kg	4.72	0.253	2	11/27/21 08:20	11/30/21 16:02	EPA 3050B	1,6010D	DL
Magnesium, Total	353		mg/kg	9.45	1.46	2	11/27/21 08:20	11/30/21 16:55	EPA 3050B	1,6010D	DL
Manganese, Total	10.7		mg/kg	0.945	0.150	2	11/27/21 08:20	11/30/21 16:02	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.077	0.051	1	11/27/21 09:35	11/27/21 15:18	EPA 7471B	1,7471B	NB
Nickel, Total	2.76		mg/kg	2.36	0.229	2	11/27/21 08:20	11/30/21 16:02	EPA 3050B	1,6010D	DL
Potassium, Total	147	J	mg/kg	236	13.6	2	11/27/21 08:20	11/30/21 16:02	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	1.89	0.244	2	11/27/21 08:20	11/30/21 16:02	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.945	0.267	2	11/27/21 08:20	11/30/21 16:02	EPA 3050B	1,6010D	DL
Sodium, Total	449		mg/kg	189	2.98	2	11/27/21 08:20	11/30/21 16:02	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.89	0.298	2	11/27/21 08:20	11/30/21 16:02	EPA 3050B	1,6010D	DL
Vanadium, Total	2.81		mg/kg	0.945	0.192	2	11/27/21 08:20	11/30/21 16:02	EPA 3050B	1,6010D	DL
Zinc, Total	6.15		mg/kg	4.72	0.277	2	11/27/21 08:20	11/30/21 16:02	EPA 3050B	1,6010D	DL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.6		mg/kg	0.99	0.99	1		11/30/21 16:02	NA	107,-	

Project Name: 1607 SURF AVE.
Lab Number: L2164557
Project Number: 170599501
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-06
Client ID: EPSW05_-3
Sample Location: BROOKLYN, NY
Date Collected: 11/22/21 12:50
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	804		mg/kg	9.65	2.60	2	11/27/21 08:20	11/30/21 16:07	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.82	0.366	2	11/27/21 08:20	11/30/21 16:07	EPA 3050B	1,6010D	DL
Arsenic, Total	0.540	J	mg/kg	0.965	0.201	2	11/27/21 08:20	11/30/21 16:07	EPA 3050B	1,6010D	DL
Barium, Total	1.99		mg/kg	0.965	0.168	2	11/27/21 08:20	11/30/21 16:07	EPA 3050B	1,6010D	DL
Beryllium, Total	0.048	J	mg/kg	0.482	0.032	2	11/27/21 08:20	11/30/21 16:07	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.965	0.095	2	11/27/21 08:20	11/30/21 16:07	EPA 3050B	1,6010D	DL
Calcium, Total	145		mg/kg	9.65	3.38	2	11/27/21 08:20	11/30/21 16:07	EPA 3050B	1,6010D	DL
Chromium, Total	2.71		mg/kg	0.965	0.093	2	11/27/21 08:20	11/30/21 16:07	EPA 3050B	1,6010D	DL
Cobalt, Total	0.820	J	mg/kg	1.93	0.160	2	11/27/21 08:20	11/30/21 16:07	EPA 3050B	1,6010D	DL
Copper, Total	1.38		mg/kg	0.965	0.249	2	11/27/21 08:20	11/30/21 16:07	EPA 3050B	1,6010D	DL
Iron, Total	1550		mg/kg	4.82	0.871	2	11/27/21 08:20	11/30/21 16:07	EPA 3050B	1,6010D	DL
Lead, Total	0.646	J	mg/kg	4.82	0.258	2	11/27/21 08:20	11/30/21 16:07	EPA 3050B	1,6010D	DL
Magnesium, Total	428		mg/kg	9.65	1.48	2	11/27/21 08:20	11/30/21 17:00	EPA 3050B	1,6010D	DL
Manganese, Total	11.7		mg/kg	0.965	0.153	2	11/27/21 08:20	11/30/21 16:07	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.079	0.051	1	11/27/21 09:35	11/27/21 15:21	EPA 7471B	1,7471B	NB
Nickel, Total	3.60		mg/kg	2.41	0.233	2	11/27/21 08:20	11/30/21 16:07	EPA 3050B	1,6010D	DL
Potassium, Total	158	J	mg/kg	241	13.9	2	11/27/21 08:20	11/30/21 16:07	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	1.93	0.249	2	11/27/21 08:20	11/30/21 16:07	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.965	0.273	2	11/27/21 08:20	11/30/21 16:07	EPA 3050B	1,6010D	DL
Sodium, Total	640		mg/kg	193	3.04	2	11/27/21 08:20	11/30/21 16:07	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.93	0.304	2	11/27/21 08:20	11/30/21 16:07	EPA 3050B	1,6010D	DL
Vanadium, Total	2.56		mg/kg	0.965	0.196	2	11/27/21 08:20	11/30/21 16:07	EPA 3050B	1,6010D	DL
Zinc, Total	5.35		mg/kg	4.82	0.283	2	11/27/21 08:20	11/30/21 16:07	EPA 3050B	1,6010D	DL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.7		mg/kg	0.99	0.99	1		11/30/21 16:07	NA	107,-	

Project Name: 1607 SURF AVE. **Lab Number:** L2164557

Project Number: 170599501 **Report Date:** 12/08/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06 Batch: WG1575727-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	11/27/21 08:20	11/30/21 15:07	1,6010D	DL
Antimony, Total	ND		mg/kg	2.00	0.152	1	11/27/21 08:20	11/30/21 15:07	1,6010D	DL
Arsenic, Total	ND		mg/kg	0.400	0.083	1	11/27/21 08:20	11/30/21 15:07	1,6010D	DL
Barium, Total	ND		mg/kg	0.400	0.070	1	11/27/21 08:20	11/30/21 15:07	1,6010D	DL
Beryllium, Total	ND		mg/kg	0.200	0.013	1	11/27/21 08:20	11/30/21 15:07	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.400	0.039	1	11/27/21 08:20	11/30/21 15:07	1,6010D	DL
Calcium, Total	ND		mg/kg	4.00	1.40	1	11/27/21 08:20	11/30/21 15:07	1,6010D	DL
Chromium, Total	ND		mg/kg	0.400	0.038	1	11/27/21 08:20	11/30/21 15:07	1,6010D	DL
Cobalt, Total	ND		mg/kg	0.800	0.066	1	11/27/21 08:20	11/30/21 15:07	1,6010D	DL
Copper, Total	ND		mg/kg	0.400	0.103	1	11/27/21 08:20	11/30/21 15:07	1,6010D	DL
Iron, Total	1.33	J	mg/kg	2.00	0.361	1	11/27/21 08:20	11/30/21 15:07	1,6010D	DL
Lead, Total	ND		mg/kg	2.00	0.107	1	11/27/21 08:20	11/30/21 15:07	1,6010D	DL
Magnesium, Total	ND		mg/kg	4.00	0.616	1	11/27/21 08:20	11/30/21 15:07	1,6010D	DL
Manganese, Total	ND		mg/kg	0.400	0.064	1	11/27/21 08:20	11/30/21 15:07	1,6010D	DL
Nickel, Total	ND		mg/kg	1.00	0.097	1	11/27/21 08:20	11/30/21 15:07	1,6010D	DL
Potassium, Total	ND		mg/kg	100	5.76	1	11/27/21 08:20	11/30/21 15:07	1,6010D	DL
Selenium, Total	ND		mg/kg	0.800	0.103	1	11/27/21 08:20	11/30/21 15:07	1,6010D	DL
Silver, Total	ND		mg/kg	0.400	0.113	1	11/27/21 08:20	11/30/21 15:07	1,6010D	DL
Sodium, Total	3.32	J	mg/kg	80.0	1.26	1	11/27/21 08:20	11/30/21 15:07	1,6010D	DL
Thallium, Total	ND		mg/kg	0.800	0.126	1	11/27/21 08:20	11/30/21 15:07	1,6010D	DL
Vanadium, Total	ND		mg/kg	0.400	0.081	1	11/27/21 08:20	11/30/21 15:07	1,6010D	DL
Zinc, Total	ND		mg/kg	2.00	0.117	1	11/27/21 08:20	11/30/21 15:07	1,6010D	DL

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06 Batch: WG1575728-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	11/27/21 09:35	11/27/21 14:18	1,7471B	NB

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2164557
Report Date: 12/08/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2164557

Report Date: 12/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1575727-2 SRM Lot Number: D109-540								
Aluminum, Total	72		-		50-150	-		
Antimony, Total	123		-		19-250	-		
Arsenic, Total	91		-		70-130	-		
Barium, Total	89		-		75-125	-		
Beryllium, Total	86		-		75-125	-		
Cadmium, Total	88		-		75-125	-		
Calcium, Total	84		-		73-128	-		
Chromium, Total	88		-		70-130	-		
Cobalt, Total	88		-		75-125	-		
Copper, Total	89		-		75-125	-		
Iron, Total	89		-		35-165	-		
Lead, Total	85		-		72-128	-		
Magnesium, Total	78		-		62-138	-		
Manganese, Total	82		-		74-126	-		
Nickel, Total	87		-		70-130	-		
Potassium, Total	80		-		59-141	-		
Selenium, Total	92		-		68-132	-		
Silver, Total	91		-		68-131	-		
Sodium, Total	94		-		35-165	-		
Thallium, Total	89		-		68-131	-		
Vanadium, Total	92		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2164557

Report Date: 12/08/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1575727-2 SRM Lot Number: D109-540					
Zinc, Total	88	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1575728-2 SRM Lot Number: D109-540					
Mercury, Total	91	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1575727-3 QC Sample: L2164557-01 Client ID: EP01_1												
Aluminum, Total	494	182	814	**176**	Q	-	-		75-125	-		20
Antimony, Total	ND	45.5	44.0	97		-	-		75-125	-		20
Arsenic, Total	0.360J	10.9	10.6	97		-	-		75-125	-		20
Barium, Total	4.57	182	195	105		-	-		75-125	-		20
Beryllium, Total	0.036J	4.55	4.55	100		-	-		75-125	-		20
Cadmium, Total	ND	4.82	4.83	100		-	-		75-125	-		20
Calcium, Total	283	910	1180	98		-	-		75-125	-		20
Chromium, Total	6.20	18.2	22.4	89		-	-		75-125	-		20
Cobalt, Total	0.469J	45.5	43.5	96		-	-		75-125	-		20
Copper, Total	1.24	22.7	24.8	104		-	-		75-125	-		20
Iron, Total	880	91	1040	**176**	Q	-	-		75-125	-		20
Lead, Total	1.33J	48.2	47.6	99		-	-		75-125	-		20
Magnesium, Total	210	910	1220	111		-	-		75-125	-		20
Manganese, Total	10.6	45.5	55.8	99		-	-		75-125	-		20
Nickel, Total	1.77J	45.5	44.6	98		-	-		75-125	-		20
Potassium, Total	104J	910	1040	114		-	-		75-125	-		20
Selenium, Total	ND	10.9	9.84	90		-	-		75-125	-		20
Silver, Total	ND	27.3	27.5	101		-	-		75-125	-		20
Sodium, Total	24.0J	910	978	107		-	-		75-125	-		20
Thallium, Total	ND	10.9	10.6	97		-	-		75-125	-		20
Vanadium, Total	2.27	45.5	49.4	104		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1575727-3 QC Sample: L2164557-01 Client ID: EP01_1									
Zinc, Total	38.0	45.5	80.1	92	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1575728-3 QC Sample: L2164557-01 Client ID: EP01_1									
Mercury, Total	ND	0.148	0.151	102	-	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2164557

Report Date: 12/08/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1575727-4 QC Sample: L2164557-01 Client ID: EP01_1						
Aluminum, Total	494	436	mg/kg	12		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	0.360J	0.250J	mg/kg	NC		20
Barium, Total	4.57	3.51	mg/kg	**26**	Q	20
Beryllium, Total	0.036J	ND	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	283	169	mg/kg	**50**	Q	20
Chromium, Total	6.20	3.24	mg/kg	**63**	Q	20
Cobalt, Total	0.469J	0.397J	mg/kg	NC		20
Copper, Total	1.24	0.943	mg/kg	**27**	Q	20
Iron, Total	880	762	mg/kg	14		20
Lead, Total	1.33J	0.776J	mg/kg	NC		20
Magnesium, Total	210	200	mg/kg	5		20
Manganese, Total	10.6	8.16	mg/kg	**26**	Q	20
Nickel, Total	1.77J	0.952J	mg/kg	NC		20
Potassium, Total	104J	96.8J	mg/kg	NC		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	24.0J	22.5J	mg/kg	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2164557

Report Date: 12/08/21

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1575727-4 QC Sample: L2164557-01 Client ID: EP01_1						
Thallium, Total	ND	ND	mg/kg	NC		20
Vanadium, Total	2.27	1.76	mg/kg	**25**	Q	20
Zinc, Total	38.0	28.9	mg/kg	**27**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1575728-4 QC Sample: L2164557-01 Client ID: EP01_1						
Mercury, Total	ND	ND	mg/kg	NC		20

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2164557
Report Date: 12/08/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1575727-6 QC Sample: L2164557-01 Client ID: EP01_1						
Aluminum, Total	494	502	mg/kg	2		20
Calcium, Total	283	294	mg/kg	4		20
Iron, Total	880	893	mg/kg	1		20

INORGANICS
&
MISCELLANEOUS

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-01
Client ID: EP01_1
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:00
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.2		%	0.100	NA	1	-	11/23/21 05:34	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	11/30/21 08:50	11/30/21 14:52	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.939	0.188	1	11/29/21 18:46	11/30/21 13:30	1,7196A	JT

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-02
Client ID: EP02_1
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:10
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.2		%	0.100	NA	1	-	11/23/21 05:34	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	11/30/21 08:50	11/30/21 14:57	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.928	0.186	1	11/29/21 18:46	11/30/21 13:30	1,7196A	JT

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-03
Client ID: EP09_1
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:20
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.3		%	0.100	NA	1	-	11/23/21 05:34	121,2540G	RI
Cyanide, Total	2.2		mg/kg	1.1	0.24	1	11/30/21 08:50	11/30/21 14:58	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.960	0.192	1	11/29/21 18:46	11/30/21 13:30	1,7196A	JT

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-04
Client ID: EPSW03_-3
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:30
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.3		%	0.100	NA	1	-	11/23/21 05:34	121,2540G	RI
Cyanide, Total	0.61	J	mg/kg	1.2	0.26	1	11/30/21 08:50	11/30/21 14:59	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	1.01	0.202	1	11/29/21 18:46	11/30/21 13:30	1,7196A	JT

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-05
Client ID: EPSW04_-3
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:40
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.9		%	0.100	NA	1	-	11/23/21 05:34	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	11/30/21 08:50	11/30/21 15:00	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.989	0.198	1	11/29/21 18:46	11/30/21 13:30	1,7196A	JT

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-06
Client ID: EPSW05_-3
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 12:50
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.8		%	0.100	NA	1	-	11/23/21 05:34	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.24	1	11/30/21 08:50	11/30/21 15:01	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.990	0.198	1	11/29/21 18:46	11/30/21 13:30	1,7196A	JT

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

SAMPLE RESULTS

Lab ID: L2164557-07
Client ID: EPSW06_-7.5
Sample Location: BROOKLYN, NY

Date Collected: 11/22/21 13:00
Date Received: 11/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.0		%	0.100	NA	1	-	11/23/21 05:34	121,2540G	RI

Project Name: 1607 SURF AVE.
Project Number: 170599501
Lab Number: L2164557
Report Date: 12/08/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG1575658-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	11/29/21 18:46	11/30/21 13:30	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG1576967-1										
Cyanide, Total	ND		mg/kg	0.84	0.18	1	11/30/21 08:50	11/30/21 14:33	1,9010C/9012B	CS

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2164557

Report Date: 12/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG1575658-2								
Chromium, Hexavalent	94		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG1576967-2 WG1576967-3								
Cyanide, Total	**39**	Q	**73**	Q	80-120	**64**	Q	35

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1575658-4 QC Sample: L2164557-01 Client ID: EP01_1												
Chromium, Hexavalent	ND	1270	1170	92		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1576967-4 WG1576967-5 QC Sample: L2164557-01 Client ID: EP01_1												
Cyanide, Total	ND	11	12	100		12	110		75-125	0		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG1574839-1 QC Sample: L2164557-01 Client ID: EP01_1						
Solids, Total	85.2	85.8	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1575658-6 QC Sample: L2164557-01 Client ID: EP01_1						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2164557-01A	Vial MeOH preserved	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2164557-01B	Vial water preserved	A	NA		2.9	Y	Absent	23-NOV-21 02:38	NYTCL-8260HLW(14)
L2164557-01C	Vial water preserved	A	NA		2.9	Y	Absent	23-NOV-21 02:38	NYTCL-8260HLW(14)
L2164557-01D	Plastic 2oz unpreserved for TS	B	NA		5.8	Y	Absent		TS(7)
L2164557-01E	Plastic 120ml unpreserved	A	NA		2.9	Y	Absent		TS(7)
L2164557-01F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),TRICR-CALC(30),NI-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2164557-01G	Glass 120ml/4oz unpreserved	A	NA		2.9	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2164557-01H	Plastic 8oz unpreserved	B	NA		5.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2164557-01J	Glass 500ml/16oz unpreserved	A	NA		2.9	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2164557-02A	Vial MeOH preserved	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2164557-02B	Vial water preserved	A	NA		2.9	Y	Absent	23-NOV-21 02:38	NYTCL-8260HLW(14)
L2164557-02C	Vial water preserved	A	NA		2.9	Y	Absent	23-NOV-21 02:38	NYTCL-8260HLW(14)
L2164557-02D	Plastic 2oz unpreserved for TS	B	NA		5.8	Y	Absent		TS(7)
L2164557-02E	Plastic 120ml unpreserved	A	NA		2.9	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2164557-02F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),TRICR-CALC(30),NI-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),CO-TI(180),V-TI(180),MG-TI(180),HG-T(28),FE-TI(180),MN-TI(180),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2164557-02G	Glass 120ml/4oz unpreserved	A	NA		2.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2164557-02H	Plastic 8oz unpreserved	B	NA		5.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2164557-02J	Glass 500ml/16oz unpreserved	A	NA		2.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2164557-03A	Vial MeOH preserved	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2164557-03B	Vial water preserved	A	NA		2.9	Y	Absent	23-NOV-21 02:38	NYTCL-8260HLW(14)
L2164557-03C	Vial water preserved	A	NA		2.9	Y	Absent	23-NOV-21 02:38	NYTCL-8260HLW(14)
L2164557-03D	Plastic 2oz unpreserved for TS	B	NA		5.8	Y	Absent		TS(7)
L2164557-03E	Plastic 120ml unpreserved	A	NA		2.9	Y	Absent		TS(7)
L2164557-03F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TRICR-CALC(30),CR-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CD-TI(180),NA-TI(180),K-TI(180),CA-TI(180)
L2164557-03G	Glass 120ml/4oz unpreserved	A	NA		2.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2164557-03H	Plastic 8oz unpreserved	B	NA		5.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2164557-03J	Glass 500ml/16oz unpreserved	A	NA		2.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2164557-04A	Vial MeOH preserved	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2164557-04B	Vial water preserved	A	NA		2.9	Y	Absent	23-NOV-21 02:38	NYTCL-8260HLW(14)
L2164557-04C	Vial water preserved	A	NA		2.9	Y	Absent	23-NOV-21 02:38	NYTCL-8260HLW(14)
L2164557-04D	Plastic 2oz unpreserved for TS	B	NA		5.8	Y	Absent		TS(7)
L2164557-04E	Plastic 120ml unpreserved	A	NA		2.9	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2164557-04F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TRICR-CALC(30),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),SE-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2164557-04G	Vial Large Septa unpreserved (4oz)	A	NA		2.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2164557-04H	Plastic 8oz unpreserved	B	NA		5.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2164557-04J	Glass 500ml/16oz unpreserved	A	NA		2.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2164557-05A	Vial MeOH preserved	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2164557-05B	Vial water preserved	A	NA		2.9	Y	Absent	23-NOV-21 02:38	NYTCL-8260HLW(14)
L2164557-05C	Vial water preserved	A	NA		2.9	Y	Absent	23-NOV-21 02:38	NYTCL-8260HLW(14)
L2164557-05D	Plastic 2oz unpreserved for TS	B	NA		5.8	Y	Absent		TS(7)
L2164557-05E	Plastic 120ml unpreserved	A	NA		2.9	Y	Absent		TS(7)
L2164557-05F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),TRICR-CALC(30),NI-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),CO-TI(180),V-TI(180),MN-TI(180),HG-T(28),FE-TI(180),MG-TI(180),NA-TI(180),K-TI(180),CA-TI(180),CD-TI(180)
L2164557-05G	Glass 120ml/4oz unpreserved	A	NA		2.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2164557-05H	Plastic 8oz unpreserved	B	NA		5.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2164557-05J	Glass 500ml/16oz unpreserved	A	NA		2.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2164557-06A	Vial MeOH preserved	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2164557-06B	Vial water preserved	A	NA		2.9	Y	Absent	23-NOV-21 02:38	NYTCL-8260HLW(14)
L2164557-06C	Vial water preserved	A	NA		2.9	Y	Absent	23-NOV-21 02:38	NYTCL-8260HLW(14)
L2164557-06D	Plastic 2oz unpreserved for TS	B	NA		5.8	Y	Absent		TS(7)
L2164557-06E	Plastic 120ml unpreserved	A	NA		2.9	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2164557-06F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),AL-TI(180),CR-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2164557-06G	Glass 120ml/4oz unpreserved	A	NA		2.9	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2164557-06H	Plastic 8oz unpreserved	B	NA		5.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2164557-06J	Glass 500ml/16oz unpreserved	A	NA		2.9	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2164557-07A	Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		TS(7),NYTCL-8081(14)
L2164557-07B	Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		TS(7),NYTCL-8081(14)
L2164557-08A	Vial HCl preserved	B	NA		5.8	Y	Absent		ARCHIVE()
L2164557-08B	Vial HCl preserved	B	NA		5.8	Y	Absent		ARCHIVE()
L2164557-08C	Vial HCl preserved	A	NA		2.9	Y	Absent		ARCHIVE()
L2164557-08D	Vial HCl preserved	A	NA		2.9	Y	Absent		ARCHIVE()

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2164557
Report Date: 12/08/21

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	1607 SURF AVE.	**Lab Number:**	L2164557
Project Number:	170599501	**Report Date:**	12/08/21

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:	1607 SURF AVE.	**Lab Number:**	L2164557
Project Number:	170599501	**Report Date:**	12/08/21

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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVE.	**Lab Number:**	L2164557
Project Number:	170599501	**Report Date:**	12/08/21

Data Qualifiers

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:	1607 SURF AVE.	**Lab Number:**	L2164557
Project Number:	170599501	**Report Date:**	12/08/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

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, SM4500Cl-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, **LACHAT 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

ALPHA ANALYTICAL

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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 1

Date Rec'd in Lab: 11/22/21

ALPHA Job #: L2164557

Client Information
Client: LANGAN
Address: 360 W 31st Street 8th floor, NYC, NY
Phone:
Fax:
Email: KSemon@Langan.com

Project Information
Project Name: 1607 Surf Ave
Project Location: Brooklyn, NY
Project #: 170599501
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☐
Rush (only if pre approved) ☐
Due Date: All analyses to be submitted on a
# of Days: 5-day TAT including PFAS

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

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:
Cc: Lesmail@Langan.com ; datamanagment@Langan.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs, SVOCs	TCL Pesticides	TAL metals	TCN	Hex/Tchromium	PFAS	1,4-dioxane	Herbs, PCBs	Sample Specific Comments	Total Bottle
64557-01	EP01_1	11/22/21	1200	S	AR	X	X	X	X	X	X	X	X		
-02	EP02_1	11/22/21	1210	S	AR	X	X	X	X	X	X	X	X		
-03	EP09_1	11/22/21	1220	S	AR	X	X	X	X	X	X	X	X		
-04	EPSW03_-3	11/22/21	1230	S	AR	X	X	X	X	X	X	X	X		
-05	EPSW04_-3	11/22/21	1240	S	AR	X	X	X	X	X	X	X	X		
-06	EPSW05_-3	11/22/21	1250	S	AR	X	X	X	X	X	X	X	X		
-07	EPSW06_-7.5	11/22/21	1300	S	AR		X							Submit on 24hr TAT	

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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

Relinquished By:	Date/Time	Received By:	Date/Time
Ali Reza (Langan)	11/22/21 16:42		
	11/22/21 18:45		
	11/22/21		
	11/22/21 23:55		11/22/21 2355

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2163081
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Kimberly Semon
Phone:	(212) 479-5486
Project Name:	1607 SURF AVENUE
Project Number:	170599501
Report Date:	12/09/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2163081-01	EP03_1	SOIL	BROOKLYN, NY	11/16/21 13:00	11/16/21
L2163081-02	EP11_1	SOIL	BROOKLYN, NY	11/16/21 13:20	11/16/21
L2163081-03	DUP03_111621	SOIL	BROOKLYN, NY	11/16/21 00:00	11/16/21
L2163081-04	DUP04_111621	SOIL	BROOKLYN, NY	11/16/21 00:00	11/16/21
L2163081-05	EP10_1	SOIL	BROOKLYN, NY	11/16/21 14:30	11/16/21
L2163081-06	FB04_111621	WATER	BROOKLYN, NY	11/16/21 14:45	11/16/21

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2163081
Project Number:	170599501	**Report Date:**	12/09/21

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: 1607 SURF AVENUE **Lab Number:** L2163081
Project Number: 170599501 **Report Date:** 12/09/21

Case Narrative (continued)

Report Submission
December 09, 2021: This final report includes the results of all requested analyses.
December 02, 2021: This is a preliminary report.
November 23, 2021: This is a preliminary report.

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

Semivolatile Organics
The WG1573937-2/-3 LCS/LCSD recoveries, associated with L2163081-01 through -05, are below the acceptance criteria for benzoic acid (6%/4%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.
The WG1573937-4/-5 MS/MSD recoveries, performed on L2163081-01, are below the acceptance criteria for 2,4-dinitrophenol (MS at 0%) and benzoic acid (0%/0%) due to the concentrations of these compounds in the MS/MSD falling below the reported detection limits.
The WG1573937-6/-7 MS/MSD recoveries, performed on L2163081-02, are below the acceptance criteria for 2,4-dinitrophenol (0%/0%) and benzoic acid (0%/0%) due to the concentrations of these compounds in the MS/MSD falling below the reported detection limits.

Perfluorinated Alkyl Acids by Isotope Dilution
L2163081-01 through -06, WG1573434-1, WG1574344-1, WG1573434-2, WG1574344-2, WG1574344-3/-4, and WG1574344-5/-6: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.
L2163081-01: The MeOH fraction of the extraction is reported for perfluorooctanesulfonamide (fosa) due to better extraction efficiency of the perfluoro[13c8]octanesulfonamide (m8fosa) Extracted Internal Standard.
The Extracted Internal Standard recovery for the WG1574344-1 Method Blank, associated with L2163081-01 through -05, is below the acceptance criteria for perfluoro[13c8]octanesulfonamide (m8fosa) (less than 10%);

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081
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Case Narrative (continued)

however, the method blank is non-detect for all associated target analytes; therefore, no further action was taken.
The WG1574344-3 MS recovery, performed on L2163081-01, is outside the acceptance criteria for 1h,1h,2h,2h-perfluorodecanesulfonic acid (8:2fts) (60%).

Total Metals
L2163081-01 through -05: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.
The WG1573652-3/-4 MS/MSD recoveries, performed on L2163081-01, are outside the acceptance criteria for aluminum (158%/174%). A post digestion spike was performed and was within acceptance criteria.
The WG1573652-3/-4 MS/MSD recoveries for iron (134%/248%), performed on L2163081-01, do not apply because the sample concentration is greater than four times the spike amount added.
The WG1573652-7/-8 MS/MSD recoveries, performed on L2163081-02, are outside the acceptance criteria for aluminum (168%/168%). A post digestion spike was performed and was within acceptance criteria.
The WG1573652-7/-8 MS/MSD recoveries for iron (226%/208%), performed on L2163081-02, do not apply because the sample concentration is greater than four times the spike amount added.

Cyanide, Total
The WG1572887-2 LCS recovery for cyanide, total (49%), associated with L2163081-01, -03, and -04, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported. The LCS/LCSD RPD is above the acceptance criteria for cyanide, total (52%).
The WG1573044-2 LCS recovery for cyanide, total (49%), associated with L2163081-02 and -05, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported. The LCS/LCSD RPD is above the acceptance criteria for cyanide, total (52%).

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: Cristin Walker

Title: Technical Director/Representative Date: 12/09/21

ORGANICS

VOLATILES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-01
Client ID: EP03_1
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 13:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/21/21 20:23
Analyst: NLK
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.0	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.60	0.24	1
Chlorobenzene	ND		ug/kg	0.60	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.84	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	0.20	1
Bromodichloromethane	ND		ug/kg	0.60	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.60	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.60	0.19	1
Bromoform	ND		ug/kg	4.8	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	0.20	1
Benzene	ND		ug/kg	0.60	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.70	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-01 Date Collected: 11/16/21 13:00

Client ID: EP03_1 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.60	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.60	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.8	0.78	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-01
Client ID: EP03_1
Sample Location: BROOKLYN, NY
Date Collected: 11/16/21 13:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	97	42.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.46	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	75		70-130
Dibromofluoromethane	103		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-02
Client ID: EP11_1
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 13:20
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/21/21 20:48
Analyst: NLK
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.2	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	ND		ug/kg	0.62	0.24	1
Chlorobenzene	ND		ug/kg	0.62	0.16	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.86	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	0.20	1
Bromodichloromethane	ND		ug/kg	0.62	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.62	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.62	0.20	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	0.20	1
Benzene	ND		ug/kg	0.62	0.20	1
Toluene	ND		ug/kg	1.2	0.67	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.1	1
Bromomethane	ND		ug/kg	2.5	0.72	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.5	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-02 Date Collected: 11/16/21 13:20

Client ID: EP11_1 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.62	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.69	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.5	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.9	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.5	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.62	0.16	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.14	1
o-Chlorotoluene	ND		ug/kg	2.5	0.24	1
p-Chlorotoluene	ND		ug/kg	2.5	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.9	0.80	1
Acrylonitrile	ND		ug/kg	4.9	1.4	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-02 Date Collected: 11/16/21 13:20

Client ID: EP11_1 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.41	1
1,4-Dioxane	ND		ug/kg	98	43.	1
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1
p-Ethyltoluene	ND		ug/kg	2.5	0.47	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.5	0.24	1
Ethyl ether	ND		ug/kg	2.5	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	104		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-03
Client ID: DUP03_111621
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 00:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/21/21 21:13
Analyst: NLK
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.0	3.2	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.1	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.32	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.37	1
Tetrachloroethene	ND		ug/kg	0.70	0.27	1
Chlorobenzene	ND		ug/kg	0.70	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.97	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.36	1
1,1,1-Trichloroethane	ND		ug/kg	0.70	0.23	1
Bromodichloromethane	ND		ug/kg	0.70	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.38	1
cis-1,3-Dichloropropene	ND		ug/kg	0.70	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.70	0.22	1
1,1-Dichloropropene	ND		ug/kg	0.70	0.22	1
Bromoform	ND		ug/kg	5.6	0.34	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.70	0.23	1
Benzene	ND		ug/kg	0.70	0.23	1
Toluene	ND		ug/kg	1.4	0.76	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.6	1.3	1
Bromomethane	ND		ug/kg	2.8	0.81	1
Vinyl chloride	ND		ug/kg	1.4	0.47	1
Chloroethane	ND		ug/kg	2.8	0.63	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.19	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-03 Date Collected: 11/16/21 00:00

Client ID: DUP03_111621 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.70	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.28	1
p/m-Xylene	ND		ug/kg	2.8	0.78	1
o-Xylene	ND		ug/kg	1.4	0.41	1
Xylenes, Total	ND		ug/kg	1.4	0.41	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.19	1
Dibromomethane	ND		ug/kg	2.8	0.33	1
Styrene	ND		ug/kg	1.4	0.27	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	ND		ug/kg	14	6.7	1
Carbon disulfide	ND		ug/kg	14	6.4	1
2-Butanone	ND		ug/kg	14	3.1	1
Vinyl acetate	ND		ug/kg	14	3.0	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
1,2,3-Trichloropropane	ND		ug/kg	2.8	0.18	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.8	0.29	1
2,2-Dichloropropane	ND		ug/kg	2.8	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.39	1
1,3-Dichloropropane	ND		ug/kg	2.8	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.70	0.18	1
Bromobenzene	ND		ug/kg	2.8	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.8	0.16	1
o-Chlorotoluene	ND		ug/kg	2.8	0.27	1
p-Chlorotoluene	ND		ug/kg	2.8	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.6	0.24	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.6	0.91	1
Acrylonitrile	ND		ug/kg	5.6	1.6	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-03 Date Collected: 11/16/21 00:00

Client ID: DUP03_111621 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	0.45	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	0.38	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	0.27	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	0.47	1
1,4-Dioxane	ND		ug/kg	110	49.	1
p-Diethylbenzene	ND		ug/kg	2.8	0.25	1
p-Ethyltoluene	ND		ug/kg	2.8	0.54	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.8	0.27	1
Ethyl ether	ND		ug/kg	2.8	0.48	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.0	2.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	**138**	Q	70-130
Dibromofluoromethane	118		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-04
Client ID: DUP04_111621
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 00:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/21/21 21:38
Analyst: NLK
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.7	3.5	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.22	1
Chloroform	ND		ug/kg	2.3	0.21	1
Carbon tetrachloride	ND		ug/kg	1.5	0.35	1
1,2-Dichloropropane	ND		ug/kg	1.5	0.19	1
Dibromochloromethane	ND		ug/kg	1.5	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.41	1
Tetrachloroethene	ND		ug/kg	0.77	0.30	1
Chlorobenzene	ND		ug/kg	0.77	0.19	1
Trichlorofluoromethane	ND		ug/kg	6.1	1.1	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.39	1
1,1,1-Trichloroethane	ND		ug/kg	0.77	0.26	1
Bromodichloromethane	ND		ug/kg	0.77	0.17	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.42	1
cis-1,3-Dichloropropene	ND		ug/kg	0.77	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	0.77	0.24	1
1,1-Dichloropropene	ND		ug/kg	0.77	0.24	1
Bromoform	ND		ug/kg	6.1	0.38	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.77	0.25	1
Benzene	ND		ug/kg	0.77	0.25	1
Toluene	ND		ug/kg	1.5	0.83	1
Ethylbenzene	ND		ug/kg	1.5	0.22	1
Chloromethane	ND		ug/kg	6.1	1.4	1
Bromomethane	ND		ug/kg	3.1	0.89	1
Vinyl chloride	ND		ug/kg	1.5	0.51	1
Chloroethane	ND		ug/kg	3.1	0.69	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.21	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-04 Date Collected: 11/16/21 00:00

Client ID: DUP04_111621 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.77	0.21	1
1,2-Dichlorobenzene	ND		ug/kg	3.1	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	3.1	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	3.1	0.26	1
Methyl tert butyl ether	ND		ug/kg	3.1	0.31	1
p/m-Xylene	ND		ug/kg	3.1	0.86	1
o-Xylene	ND		ug/kg	1.5	0.44	1
Xylenes, Total	ND		ug/kg	1.5	0.44	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.27	1
1,2-Dichloroethene, Total	ND		ug/kg	1.5	0.21	1
Dibromomethane	ND		ug/kg	3.1	0.36	1
Styrene	ND		ug/kg	1.5	0.30	1
Dichlorodifluoromethane	ND		ug/kg	15	1.4	1
Acetone	ND		ug/kg	15	7.4	1
Carbon disulfide	ND		ug/kg	15	7.0	1
2-Butanone	ND		ug/kg	15	3.4	1
Vinyl acetate	ND		ug/kg	15	3.3	1
4-Methyl-2-pentanone	ND		ug/kg	15	2.0	1
1,2,3-Trichloropropane	ND		ug/kg	3.1	0.19	1
2-Hexanone	ND		ug/kg	15	1.8	1
Bromochloromethane	ND		ug/kg	3.1	0.31	1
2,2-Dichloropropane	ND		ug/kg	3.1	0.31	1
1,2-Dibromoethane	ND		ug/kg	1.5	0.43	1
1,3-Dichloropropane	ND		ug/kg	3.1	0.26	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.77	0.20	1
Bromobenzene	ND		ug/kg	3.1	0.22	1
n-Butylbenzene	ND		ug/kg	1.5	0.26	1
sec-Butylbenzene	ND		ug/kg	1.5	0.22	1
tert-Butylbenzene	ND		ug/kg	3.1	0.18	1
o-Chlorotoluene	ND		ug/kg	3.1	0.29	1
p-Chlorotoluene	ND		ug/kg	3.1	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.6	1.5	1
Hexachlorobutadiene	ND		ug/kg	6.1	0.26	1
Isopropylbenzene	ND		ug/kg	1.5	0.17	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.17	1
Naphthalene	ND		ug/kg	6.1	1.0	1
Acrylonitrile	ND		ug/kg	6.1	1.8	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-04 Date Collected: 11/16/21 00:00

Client ID: DUP04_111621 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.5	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.1	0.49	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.1	0.42	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.1	0.30	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.1	0.51	1
1,4-Dioxane	ND		ug/kg	120	54.	1
p-Diethylbenzene	ND		ug/kg	3.1	0.27	1
p-Ethyltoluene	ND		ug/kg	3.1	0.59	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.1	0.29	1
Ethyl ether	ND		ug/kg	3.1	0.52	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.7	2.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	116		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-05
Client ID: EP10_1
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 14:30
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/21/21 22:03
Analyst: NLK
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.3	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	0.26	J	ug/kg	0.63	0.25	1
Chlorobenzene	ND		ug/kg	0.63	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.88	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.63	0.21	1
Bromodichloromethane	ND		ug/kg	0.63	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.63	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.63	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.63	0.20	1
Bromoform	ND		ug/kg	5.0	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.63	0.21	1
Benzene	ND		ug/kg	0.63	0.21	1
Toluene	ND		ug/kg	1.3	0.68	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.0	1.2	1
Bromomethane	ND		ug/kg	2.5	0.73	1
Vinyl chloride	ND		ug/kg	1.3	0.42	1
Chloroethane	ND		ug/kg	2.5	0.57	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-05 Date Collected: 11/16/21 14:30

Client ID: EP10_1 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.63	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.71	1
o-Xylene	ND		ug/kg	1.3	0.37	1
Xylenes, Total	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.17	1
Dibromomethane	ND		ug/kg	2.5	0.30	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.1	1
Carbon disulfide	ND		ug/kg	13	5.7	1
2-Butanone	ND		ug/kg	13	2.8	1
Vinyl acetate	ND		ug/kg	13	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.35	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.63	0.17	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.15	1
o-Chlorotoluene	ND		ug/kg	2.5	0.24	1
p-Chlorotoluene	ND		ug/kg	2.5	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.2	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.21	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.0	0.82	1
Acrylonitrile	ND		ug/kg	5.0	1.4	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-05 Date Collected: 11/16/21 14:30

Client ID: EP10_1 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1
1,4-Dioxane	ND		ug/kg	100	44.	1
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1
p-Ethyltoluene	ND		ug/kg	2.5	0.48	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.5	0.24	1
Ethyl ether	ND		ug/kg	2.5	0.43	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.3	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	129		70-130
Dibromofluoromethane	**139**	Q	70-130

Project Name: 1607 SURF AVENUE
Lab Number: L2163081
Project Number: 170599501
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-06
Client ID: FB04_111621
Sample Location: BROOKLYN, NY
Date Collected: 11/16/21 14:45
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/17/21 12:32
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-06 Date Collected: 11/16/21 14:45

Client ID: FB04_111621 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-06 Date Collected: 11/16/21 14:45

Client ID: FB04_111621 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	128		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	114		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/17/21 11:12
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1572792-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/17/21 11:12
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1572792-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/17/21 11:12
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1572792-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	128		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	111		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/21/21 19:58
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05 Batch: WG1574517-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/21/21 19:58
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05 Batch: WG1574517-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/21/21 19:58
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05 Batch: WG1574517-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	**137**	Q	70-130
Dibromofluoromethane	130		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1572792-3 WG1572792-4								
Methylene chloride	88		94		70-130	7		20
1,1-Dichloroethane	100		120		70-130	18		20
Chloroform	99		100		70-130	1		20
Carbon tetrachloride	110		120		63-132	9		20
1,2-Dichloropropane	96		100		70-130	4		20
Dibromochloromethane	93		98		63-130	5		20
1,1,2-Trichloroethane	87		96		70-130	10		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	93		100		75-130	7		20
Trichlorofluoromethane	110		130		62-150	17		20
1,2-Dichloroethane	110		120		70-130	9		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	96		110		67-130	14		20
trans-1,3-Dichloropropene	87		95		70-130	9		20
cis-1,3-Dichloropropene	83		94		70-130	12		20
1,1-Dichloropropene	100		110		70-130	10		20
Bromoform	84		90		54-136	7		20
1,1,2,2-Tetrachloroethane	87		96		67-130	10		20
Benzene	91		99		70-130	8		20
Toluene	88		97		70-130	10		20
Ethylbenzene	92		97		70-130	5		20
Chloromethane	100		110		64-130	10		20
Bromomethane	62		66		39-139	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1572792-3 WG1572792-4								
Vinyl chloride	100		110		55-140	10		20
Chloroethane	110		120		55-138	9		20
1,1-Dichloroethene	92		100		61-145	8		20
trans-1,2-Dichloroethene	88		100		70-130	13		20
Trichloroethene	90		97		70-130	7		20
1,2-Dichlorobenzene	95		100		70-130	5		20
1,3-Dichlorobenzene	93		100		70-130	7		20
1,4-Dichlorobenzene	94		100		70-130	6		20
Methyl tert butyl ether	82		94		63-130	14		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	95		100		70-130	5		20
cis-1,2-Dichloroethene	87		96		70-130	10		20
Dibromomethane	96		110		70-130	14		20
1,2,3-Trichloropropane	88		98		64-130	11		20
Acrylonitrile	89		110		70-130	**21**	Q	20
Styrene	95		100		70-130	5		20
Dichlorodifluoromethane	77		86		36-147	11		20
Acetone	100		130		58-148	**26**	Q	20
Carbon disulfide	100		110		51-130	10		20
2-Butanone	110		120		63-138	9		20
Vinyl acetate	130		130		70-130	0		20
4-Methyl-2-pentanone	74		90		59-130	20		20
2-Hexanone	86		94		57-130	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1572792-3 WG1572792-4								
Bromochloromethane	90		95		70-130	5		20
2,2-Dichloropropane	110		120		63-133	9		20
1,2-Dibromoethane	84		92		70-130	9		20
1,3-Dichloropropane	92		100		70-130	8		20
1,1,1,2-Tetrachloroethane	95		99		64-130	4		20
Bromobenzene	90		95		70-130	5		20
n-Butylbenzene	100		110		53-136	10		20
sec-Butylbenzene	98		110		70-130	12		20
tert-Butylbenzene	92		100		70-130	8		20
o-Chlorotoluene	95		100		70-130	5		20
p-Chlorotoluene	90		96		70-130	6		20
1,2-Dibromo-3-chloropropane	75		76		41-144	1		20
Hexachlorobutadiene	88		98		63-130	11		20
Isopropylbenzene	91		98		70-130	7		20
p-Isopropyltoluene	92		99		70-130	7		20
Naphthalene	72		86		70-130	18		20
n-Propylbenzene	98		100		69-130	2		20
1,2,3-Trichlorobenzene	92		110		70-130	18		20
1,2,4-Trichlorobenzene	88		95		70-130	8		20
1,3,5-Trimethylbenzene	93		98		64-130	5		20
1,2,4-Trimethylbenzene	92		97		70-130	5		20
1,4-Dioxane	68		86		56-162	**23**	Q	20
p-Diethylbenzene	93		100		70-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1572792-3 WG1572792-4								
p-Ethyltoluene	98		100		70-130	2		20
1,2,4,5-Tetramethylbenzene	85		85		70-130	0		20
Ethyl ether	94		100		59-134	6		20
trans-1,4-Dichloro-2-butene	83		85		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	126		128		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	100		98		70-130
Dibromofluoromethane	110		110		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 Batch: WG1574517-3 WG1574517-4								
Methylene chloride	87		86		70-130	1		30
1,1-Dichloroethane	114		104		70-130	9		30
Chloroform	92		105		70-130	13		30
Carbon tetrachloride	110		**133**	Q	70-130	19		30
1,2-Dichloropropane	116		92		70-130	23		30
Dibromochloromethane	90		77		70-130	16		30
1,1,2-Trichloroethane	90		78		70-130	14		30
Tetrachloroethene	105		89		70-130	16		30
Chlorobenzene	100		100		70-130	0		30
Trichlorofluoromethane	116		95		70-139	20		30
1,2-Dichloroethane	88		89		70-130	1		30
1,1,1-Trichloroethane	107		126		70-130	16		30
Bromodichloromethane	122		97		70-130	23		30
trans-1,3-Dichloropropene	102		88		70-130	15		30
cis-1,3-Dichloropropene	99		99		70-130	0		30
1,1-Dichloropropene	106		121		70-130	13		30
Bromoform	93		117		70-130	23		30
1,1,2,2-Tetrachloroethane	96		97		70-130	1		30
Benzene	97		97		70-130	0		30
Toluene	100		86		70-130	15		30
Ethylbenzene	101		100		70-130	1		30
Chloromethane	96		95		52-130	1		30
Bromomethane	106		104		57-147	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 Batch: WG1574517-3 WG1574517-4								
Vinyl chloride	102		105		67-130	3		30
Chloroethane	100		102		50-151	2		30
1,1-Dichloroethene	103		102		65-135	1		30
trans-1,2-Dichloroethene	99		99		70-130	0		30
Trichloroethene	102		101		70-130	1		30
1,2-Dichlorobenzene	98		99		70-130	1		30
1,3-Dichlorobenzene	100		101		70-130	1		30
1,4-Dichlorobenzene	100		100		70-130	0		30
Methyl tert butyl ether	88		90		66-130	2		30
p/m-Xylene	105		103		70-130	2		30
o-Xylene	104		112		70-130	7		30
cis-1,2-Dichloroethene	104		116		70-130	11		30
Dibromomethane	114		91		70-130	22		30
Styrene	89		94		70-130	5		30
Dichlorodifluoromethane	82		79		30-146	4		30
Acetone	107		106		54-140	1		30
Carbon disulfide	98		96		59-130	2		30
2-Butanone	112		127		70-130	13		30
Vinyl acetate	120		116		70-130	3		30
4-Methyl-2-pentanone	89		79		70-130	12		30
1,2,3-Trichloropropane	91		95		68-130	4		30
2-Hexanone	94		83		70-130	12		30
Bromochloromethane	94		110		70-130	16		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 Batch: WG1574517-3 WG1574517-4								
2,2-Dichloropropane	108		126		70-130	15		30
1,2-Dibromoethane	94		81		70-130	15		30
1,3-Dichloropropane	90		79		69-130	13		30
1,1,1,2-Tetrachloroethane	102		109		70-130	7		30
Bromobenzene	97		97		70-130	0		30
n-Butylbenzene	112		112		70-130	0		30
sec-Butylbenzene	113		112		70-130	1		30
tert-Butylbenzene	110		110		70-130	0		30
o-Chlorotoluene	108		109		70-130	1		30
p-Chlorotoluene	105		104		70-130	1		30
1,2-Dibromo-3-chloropropane	92		96		68-130	4		30
Hexachlorobutadiene	115		100		67-130	14		30
Isopropylbenzene	111		110		70-130	1		30
p-Isopropyltoluene	112		111		70-130	1		30
Naphthalene	119		98		70-130	19		30
Acrylonitrile	108		101		70-130	7		30
n-Propylbenzene	110		108		70-130	2		30
1,2,3-Trichlorobenzene	118		95		70-130	22		30
1,2,4-Trichlorobenzene	109		100		70-130	9		30
1,3,5-Trimethylbenzene	107		107		70-130	0		30
1,2,4-Trimethylbenzene	104		104		70-130	0		30
1,4-Dioxane	134		108		65-136	21		30
p-Diethylbenzene	115		114		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 Batch: WG1574517-3 WG1574517-4								
p-Ethyltoluene	111		110		70-130	1		30
1,2,4,5-Tetramethylbenzene	111		111		70-130	0		30
Ethyl ether	85		87		67-130	2		30
trans-1,4-Dichloro-2-butene	101		104		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		98		70-130
Toluene-d8	102		89		70-130
4-Bromofluorobenzene	106		101		70-130
Dibromofluoromethane	99		120		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1574517-6 WG1574517-7 QC Sample: L2163081-01 Client ID: EP03_1												
Methylene chloride	ND	123	94	76		96	76		70-130	2		30
1,1-Dichloroethane	ND	123	100	85		120	98		70-130	16		30
Chloroform	ND	123	110	90		120	95		70-130	7		30
Carbon tetrachloride	ND	123	130	109		120	99		70-130	8		30
1,2-Dichloropropane	ND	123	100	82		100	83		70-130	3		30
Dibromochloromethane	ND	123	120	99		86	**69**	Q	70-130	**33**	Q	30
1,1,2-Trichloroethane	ND	123	120	96		86	**69**	Q	70-130	**31**	Q	30
Tetrachloroethene	ND	123	130	109		94	75		70-130	**36**	Q	30
Chlorobenzene	ND	123	110	86		110	86		70-130	1		30
Trichlorofluoromethane	ND	123	110	86		100	81		70-139	4		30
1,2-Dichloroethane	ND	123	97	79		100	80		70-130	3		30
1,1,1-Trichloroethane	ND	123	130	106		120	95		70-130	9		30
Bromodichloromethane	ND	123	110	88		110	89		70-130	3		30
trans-1,3-Dichloropropene	ND	123	130	107		96	77		70-130	**31**	Q	30
cis-1,3-Dichloropropene	ND	123	110	89		110	90		70-130	3		30
1,1-Dichloropropene	ND	123	110	93		120	93		70-130	2		30
Bromoform	ND	123	100	85		130	102		70-130	20		30
1,1,2,2-Tetrachloroethane	ND	123	100	82		100	82		70-130	3		30
Benzene	ND	123	110	86		110	87		70-130	3		30
Toluene	ND	123	110	86		94	75		70-130	12		30
Ethylbenzene	ND	123	110	86		110	84		70-130	1		30
Chloromethane	ND	123	100	84		110	85		52-130	3		30
Bromomethane	ND	123	110	93		120	93		57-147	2		30

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1574517-6 WG1574517-7 QC Sample: L2163081-01 Client ID: EP03_1												
Vinyl chloride	ND	123	110	93		120	93		67-130	2		30
Chloroethane	ND	123	120	100		120	95		50-151	2		30
1,1-Dichloroethene	ND	123	110	91		110	91		65-135	2		30
trans-1,2-Dichloroethene	ND	123	110	88		130	105		70-130	20		30
Trichloroethene	ND	123	110	90		110	90		70-130	3		30
1,2-Dichlorobenzene	ND	123	98	80		100	80		70-130	2		30
1,3-Dichlorobenzene	ND	123	98	80		100	81		70-130	3		30
1,4-Dichlorobenzene	ND	123	96	79		99	79		70-130	3		30
Methyl tert butyl ether	ND	123	96	78		120	94		66-130	20		30
p/m-Xylene	ND	245	220	90		230	93		70-130	5		30
o-Xylene	ND	245	220	90		240	94		70-130	6		30
cis-1,2-Dichloroethene	ND	123	130	104		130	106		70-130	4		30
Dibromomethane	ND	123	99	81		100	82		70-130	3		30
Styrene	ND	245	190	79		200	81		70-130	4		30
Dichlorodifluoromethane	ND	123	83	68		84	67		30-146	0		30
Acetone	ND	123	120	100		130	101		54-140	3		30
Carbon disulfide	ND	123	110	87		110	88		59-130	3		30
2-Butanone	ND	123	120	95		120	99		70-130	6		30
Vinyl acetate	ND	123	91	74		87	**69**	Q	70-130	5		30
4-Methyl-2-pentanone	ND	123	120	96		87	**69**	Q	70-130	30		30
1,2,3-Trichloropropane	ND	123	96	79		99	79		68-130	3		30
2-Hexanone	ND	123	100	83		110	85		70-130	4		30
Bromochloromethane	ND	123	120	96		130	102		70-130	8		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1574517-6 WG1574517-7 QC Sample: L2163081-01 Client ID: EP03_1												
2,2-Dichloropropane	ND	123	140	112		140	112		70-130	2		30
1,2-Dibromoethane	ND	123	120	95		91	73		70-130	24		30
1,3-Dichloropropane	ND	123	120	95		85	**68**	Q	69-130	**31**	Q	30
1,1,1,2-Tetrachloroethane	ND	123	110	92		110	89		70-130	2		30
Bromobenzene	ND	123	100	81		100	82		70-130	2		30
n-Butylbenzene	ND	123	100	85		110	86		70-130	4		30
sec-Butylbenzene	ND	123	110	91		120	93		70-130	4		30
tert-Butylbenzene	ND	123	110	91		120	94		70-130	4		30
o-Chlorotoluene	ND	123	130	103		130	103		70-130	2		30
p-Chlorotoluene	ND	123	100	85		110	86		70-130	3		30
1,2-Dibromo-3-chloropropane	ND	123	100	81		100	82		68-130	2		30
Hexachlorobutadiene	ND	123	86	70		92	73		67-130	6		30
Isopropylbenzene	ND	123	120	94		120	94		70-130	3		30
p-Isopropyltoluene	ND	123	110	90		120	92		70-130	4		30
Naphthalene	ND	123	98	80		100	80		70-130	3		30
Acrylonitrile	ND	123	94	77		110	90		70-130	17		30
n-Propylbenzene	ND	123	110	90		110	90		70-130	3		30
1,2,3-Trichlorobenzene	ND	123	85	**69**	Q	88	70		70-130	3		30
1,2,4-Trichlorobenzene	ND	123	87	71		89	71		70-130	3		30
1,3,5-Trimethylbenzene	ND	123	110	88		110	90		70-130	4		30
1,2,4-Trimethylbenzene	ND	123	100	85		110	86		70-130	3		30
1,4-Dioxane	ND	6130	6200	102		6300	101		65-136	1		30
p-Diethylbenzene	ND	123	110	88		110	91		70-130	5		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1574517-6 WG1574517-7 QC Sample: L2163081-01 Client ID: EP03_1												
p-Ethyltoluene	ND	123	110	90		110	90		70-130	3		30
1,2,4,5-Tetramethylbenzene	ND	123	110	88		110	90		70-130	4		30
Ethyl ether	ND	123	93	76		96	77		67-130	4		30
trans-1,4-Dichloro-2-butene	ND	123	110	86		110	86		70-130	3		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		100		70-130
4-Bromofluorobenzene	101		101		70-130
Dibromofluoromethane	118		102		70-130
Toluene-d8	102		88		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1574517-8 WG1574517-9 QC Sample: L2163081-02 Client ID: EP11_1												
Methylene chloride	ND	122	98	80		86	**67**	Q	70-130	13		30
1,1-Dichloroethane	ND	122	120	100		110	87		70-130	10		30
Chloroform	ND	122	120	98		110	89		70-130	5		30
Carbon tetrachloride	ND	122	130	108		140	108		70-130	4		30
1,2-Dichloropropane	ND	122	110	86		91	72		70-130	14		30
Dibromochloromethane	ND	122	82	**67**	Q	120	90		70-130	**33**	Q	30
1,1,2-Trichloroethane	ND	122	81	**66**	Q	110	89		70-130	**34**	Q	30
Tetrachloroethene	ND	122	89	72		120	97		70-130	**33**	Q	30
Chlorobenzene	ND	122	110	89		120	97		70-130	13		30
Trichlorofluoromethane	ND	122	110	90		96	76		70-139	13		30
1,2-Dichloroethane	ND	122	100	82		110	85		70-130	8		30
1,1,1-Trichloroethane	ND	122	120	99		140	106		70-130	12		30
Bromodichloromethane	ND	122	110	92		99	78		70-130	13		30
trans-1,3-Dichloropropene	ND	122	90	73		130	99		70-130	**34**	Q	30
cis-1,3-Dichloropropene	ND	122	110	91		99	77		70-130	13		30
1,1-Dichloropropene	ND	122	120	96		130	102		70-130	10		30
Bromoform	ND	122	130	105		120	97		70-130	4		30
1,1,2,2-Tetrachloroethane	ND	122	110	86		120	92		70-130	10		30
Benzene	ND	122	110	90		120	95		70-130	10		30
Toluene	ND	122	88	72		130	98		70-130	**34**	Q	30
Ethylbenzene	ND	122	110	88		130	99		70-130	15		30
Chloromethane	ND	122	110	88		95	75		52-130	12		30
Bromomethane	ND	122	120	96		110	82		57-147	12		30

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1574517-8 WG1574517-9 QC Sample: L2163081-02 Client ID: EP11_1												
Vinyl chloride	ND	122	120	98		100	82		67-130	14		30
Chloroethane	ND	122	120	100		110	85		50-151	12		30
1,1-Dichloroethene	ND	122	120	96		100	82		65-135	13		30
trans-1,2-Dichloroethene	ND	122	110	92		100	78		70-130	13		30
Trichloroethene	ND	122	110	93		130	98		70-130	9		30
1,2-Dichlorobenzene	ND	122	100	85		140	109		70-130	29		30
1,3-Dichlorobenzene	ND	122	100	85		120	91		70-130	11		30
1,4-Dichlorobenzene	ND	122	100	82		110	88		70-130	11		30
Methyl tert butyl ether	ND	122	100	82		88	69		66-130	13		30
p/m-Xylene	ND	245	220	89		260	101		70-130	16		30
o-Xylene	ND	245	220	89		260	103		70-130	19		30
cis-1,2-Dichloroethene	ND	122	140	110		110	89		70-130	17		30
Dibromomethane	ND	122	100	85		91	71		70-130	13		30
Styrene	ND	245	190	76		230	89		70-130	20		30
Dichlorodifluoromethane	ND	122	90	73		76	60		30-146	16		30
Acetone	ND	122	130	109		120	92		54-140	13		30
Carbon disulfide	ND	122	110	91		99	77		59-130	13		30
2-Butanone	ND	122	130	103		140	106		70-130	8		30
Vinyl acetate	ND	122	110	90		91	71		70-130	19		30
4-Methyl-2-pentanone	ND	122	83	**68**	Q	120	91		70-130	**33**	Q	30
1,2,3-Trichloropropane	ND	122	100	83		120	90		68-130	12		30
2-Hexanone	ND	122	110	89		120	97		70-130	13		30
Bromochloromethane	ND	122	130	104		120	93		70-130	7		30

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1574517-8 WG1574517-9 QC Sample: L2163081-02 Client ID: EP11_1												
2,2-Dichloropropane	ND	122	140	117		120	92		70-130	19		30
1,2-Dibromoethane	ND	122	85	70		120	93		70-130	**33**	Q	30
1,3-Dichloropropane	ND	122	82	**66**	Q	110	89		69-130	**33**	Q	30
1,1,1,2-Tetrachloroethane	ND	122	120	95		130	103		70-130	13		30
Bromobenzene	ND	122	110	86		120	92		70-130	12		30
n-Butylbenzene	ND	122	110	91		120	96		70-130	9		30
sec-Butylbenzene	ND	122	120	98		130	105		70-130	11		30
tert-Butylbenzene	ND	122	120	99		140	106		70-130	12		30
o-Chlorotoluene	ND	122	130	108		150	116		70-130	11		30
p-Chlorotoluene	ND	122	110	89		120	96		70-130	12		30
1,2-Dibromo-3-chloropropane	ND	122	110	86		120	93		68-130	13		30
Hexachlorobutadiene	ND	122	99	80		100	82		67-130	5		30
Isopropylbenzene	ND	122	120	98		140	106		70-130	12		30
p-Isopropyltoluene	ND	122	120	96		130	103		70-130	10		30
Naphthalene	ND	122	100	85		120	90		70-130	10		30
Acrylonitrile	ND	122	120	96		100	80		70-130	15		30
n-Propylbenzene	ND	122	120	95		130	103		70-130	12		30
1,2,3-Trichlorobenzene	ND	122	91	74		100	79		70-130	11		30
1,2,4-Trichlorobenzene	ND	122	92	75		100	80		70-130	11		30
1,3,5-Trimethylbenzene	ND	122	120	94		130	101		70-130	11		30
1,2,4-Trimethylbenzene	ND	122	110	90		120	97		70-130	12		30
1,4-Dioxane	ND	6130	6700	110		5700	90		65-136	16		30
p-Diethylbenzene	ND	122	120	95		130	101		70-130	11		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1574517-8 WG1574517-9 QC Sample: L2163081-02 Client ID: EP11_1												
p-Ethyltoluene	ND	122	120	95		130	103		70-130	12		30
1,2,4,5-Tetramethylbenzene	ND	122	120	94		130	101		70-130	11		30
Ethyl ether	ND	122	97	79		86	67		67-130	12		30
trans-1,4-Dichloro-2-butene	ND	122	110	88		120	95		70-130	11		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		97		70-130
4-Bromofluorobenzene	101		103		70-130
Dibromofluoromethane	100		101		70-130
Toluene-d8	81		102		70-130

SEMIVOLATILES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-01
Client ID: EP03_1
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 13:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/21/21 11:06
Analyst: CMM
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 11/20/21 07:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-01 Date Collected: 11/16/21 13:00

Client ID: EP03_1 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: 1607 SURF AVENUE
Lab Number: L2163081
Project Number: 170599501
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-01
Client ID: EP03_1
Sample Location: BROOKLYN, NY
Date Collected: 11/16/21 13:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	74		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-01
Client ID: EP03_1
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 13:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/02/21 00:02
Analyst: RS
Percent Solids: 89%

Extraction Method: ALPHA 23528
Extraction Date: 11/22/21 10:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.513	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.513	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.256	0.040	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.513	0.054	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.256	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.256	0.062	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.256	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.513	0.184	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.513	0.140	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.256	0.077	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.256	0.133	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.256	0.069	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.513	0.294	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.513	0.207	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.513	0.048	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.513	0.157	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.513	0.087	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.513	0.072	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.513	0.210	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.513	0.055	1
PFOA/PFOS, Total	ND		ng/g	0.256	0.043	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-01 Date Collected: 11/16/21 13:00

Client ID: EP03_1 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	102		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	133		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	93		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	100		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	100		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**168**	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	111		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	99		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**237**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	131		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	111		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	116		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	88		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	67		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-01
Client ID: EP03_1
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 13:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/02/21 13:06
Analyst: RS
Percent Solids: 89%

Extraction Method: ALPHA 23528
Extraction Date: 11/22/21 10:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.513	0.100	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	89		10-117

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-02
Client ID: EP11_1
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 13:20
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/21/21 12:16
Analyst: CMM
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 11/20/21 07:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-02 Date Collected: 11/16/21 13:20

Client ID: EP11_1 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-02 Date Collected: 11/16/21 13:20

Client ID: EP11_1 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	73		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-02
Client ID: EP11_1
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 13:20
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/02/21 00:52
Analyst: RS
Percent Solids: 95%

Extraction Method: ALPHA 23528
Extraction Date: 11/22/21 10:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.490	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.490	0.045	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.245	0.038	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.490	0.052	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.245	0.044	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.245	0.059	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.245	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.490	0.176	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.490	0.134	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.245	0.074	1
Perfluorooctanesulfonic Acid (PFOS)	0.150	J	ng/g	0.245	0.127	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.245	0.066	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.490	0.281	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.490	0.198	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.490	0.046	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.490	0.150	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.490	0.096	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.490	0.083	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.490	0.069	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.490	0.200	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.490	0.053	1
PFOA/PFOS, Total	0.150	J	ng/g	0.245	0.041	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-02 Date Collected: 11/16/21 13:20

Client ID: EP11_1 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	102		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	133		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	104		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	86		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	97		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	111		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	152		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	103		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	113		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**190**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	83		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	112		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	63		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	100		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	82		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-03
Client ID: DUP03_111621
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 00:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/21/21 13:27
Analyst: CMM
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 11/20/21 07:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-03 Date Collected: 11/16/21 00:00

Client ID: DUP03_111621 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	970	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	97.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-03 Date Collected: 11/16/21 00:00

Client ID: DUP03_111621 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	200	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	30	9.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	73		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-03
Client ID: DUP03_111621
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 00:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/02/21 01:42
Analyst: RS
Percent Solids: 82%

Extraction Method: ALPHA 23528
Extraction Date: 11/22/21 10:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.571	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.571	0.053	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.285	0.045	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.571	0.060	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.285	0.052	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.285	0.069	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.285	0.048	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.571	0.205	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.571	0.156	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.285	0.086	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.285	0.148	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.285	0.077	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.571	0.328	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.571	0.230	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.571	0.053	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.571	0.175	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.571	0.112	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.571	0.096	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.571	0.080	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.571	0.233	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.571	0.062	1
PFOA/PFOS, Total	ND		ng/g	0.285	0.048	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-03 Date Collected: 11/16/21 00:00

Client ID: DUP03_111621 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	104		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	135		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	111		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	119		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	99		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**221**	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	104		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	123		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**343**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	125		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	109		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	22		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	125		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	96		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	81		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-04
Client ID: DUP04_111621
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 00:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/21/21 13:51
Analyst: CMM
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 11/20/21 07:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	38.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	44.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	200	28.	1
Naphthalene	ND		ug/kg	220	27.	1
Nitrobenzene	ND		ug/kg	200	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	76.	1
Butyl benzyl phthalate	ND		ug/kg	220	55.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-04 Date Collected: 11/16/21 00:00

Client ID: DUP04_111621 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	37.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	ND		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	170	34.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	26.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	51.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	72.	1
2-Nitrophenol	ND		ug/kg	470	82.	1
4-Nitrophenol	ND		ug/kg	300	89.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	570	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-04 Date Collected: 11/16/21 00:00

Client ID: DUP04_111621 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	42.	1
Benzoic Acid	ND		ug/kg	710	220	1
Benzyl Alcohol	ND		ug/kg	220	67.	1
Carbazole	ND		ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	33	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	57		30-120
2,4,6-Tribromophenol	60		10-136
4-Terphenyl-d14	62		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-04
Client ID: DUP04_111621
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 00:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/02/21 01:59
Analyst: RS
Percent Solids: 75%

Extraction Method: ALPHA 23528
Extraction Date: 11/22/21 10:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.616	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.616	0.057	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.308	0.048	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.616	0.065	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.308	0.056	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.308	0.075	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.308	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.616	0.221	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.616	0.168	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.308	0.092	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.308	0.160	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.308	0.083	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.616	0.353	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.616	0.248	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.616	0.058	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.616	0.188	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.616	0.121	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.616	0.104	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.616	0.086	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.616	0.252	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.616	0.067	1
PFOA/PFOS, Total	ND		ng/g	0.308	0.052	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-04 Date Collected: 11/16/21 00:00

Client ID: DUP04_111621 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	99		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	128		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	94		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	101		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	146		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	109		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**224**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	76		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	60		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	82		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	89		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	72		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-05
Client ID: EP10_1
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 14:30
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/21/21 14:14
Analyst: CMM
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 11/20/21 07:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-05 Date Collected: 11/16/21 14:30

Client ID: EP10_1 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-05 Date Collected: 11/16/21 14:30

Client ID: EP10_1 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	70		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-05
Client ID: EP10_1
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 14:30
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/02/21 02:15
Analyst: RS
Percent Solids: 90%

Extraction Method: ALPHA 23528
Extraction Date: 11/22/21 10:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.510	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.510	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.255	0.040	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.510	0.054	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.255	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.255	0.062	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.255	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.510	0.183	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.510	0.139	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.255	0.077	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.255	0.133	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.255	0.068	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.510	0.293	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.510	0.206	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.510	0.048	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.510	0.156	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.510	0.100	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.510	0.086	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.510	0.071	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.510	0.209	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.510	0.055	1
PFOA/PFOS, Total	ND		ng/g	0.255	0.043	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-05 Date Collected: 11/16/21 14:30

Client ID: EP10_1 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	132		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	96		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	96		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	103		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	101		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**168**	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	108		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**303**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	115		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	110		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	59		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	112		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	91		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	83		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-06
Client ID: FB04_111621
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 14:45
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/21/21 12:35
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 11/18/21 21:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-06 Date Collected: 11/16/21 14:45

Client ID: FB04_111621 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		21-120
Phenol-d6	58		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	82		10-120
4-Terphenyl-d14	110		41-149

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-06
Client ID: FB04_111621
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 14:45
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/20/21 19:51
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 11/18/21 21:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.02	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-06 Date Collected: 11/16/21 14:45

Client ID: FB04_111621 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		21-120
Phenol-d6	63		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	91		10-120
4-Terphenyl-d14	109		41-149

Project Name: 1607 SURF AVENUE
Lab Number: L2163081
Project Number: 170599501
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-06
Client ID: FB04_111621
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 14:45
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 12/03/21 22:38
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 11/21/21 09:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	144	32.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	51		15-110

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-06
Client ID: FB04_111621
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 14:45
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/27/21 02:00
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 11/19/21 07:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.77	0.360	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.77	0.350	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.77	0.210	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.77	0.290	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.77	0.199	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.77	0.332	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.77	0.208	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.77	1.18	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.77	0.608	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.77	0.276	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.77	0.445	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.77	0.268	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.77	1.07	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.77	0.572	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.77	0.230	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.77	0.866	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.77	0.512	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.77	0.710	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.77	0.329	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.77	0.289	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.77	0.219	1
PFOA/PFOS, Total	ND		ng/l	1.77	0.208	1

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-06 Date Collected: 11/16/21 14:45

Client ID: FB04_111621 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	102		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	96		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	111		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	105		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	103		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	114		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	102		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**155**	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	105		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	99		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	157		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	94		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	100		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	35		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	117		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	79		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	67		22-136

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/21/21 08:45
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 11/18/21 21:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1573312-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/21/21 08:45
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 11/18/21 21:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1573312-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/21/21 08:45
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 11/18/21 21:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1573312-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	63		10-120
4-Terphenyl-d14	95		41-149

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 11/20/21 18:53
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 11/18/21 21:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 06 Batch: WG1573313-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	0.03	J	ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	0.03	J	ug/l	0.10	0.01
Benzo(k)fluoranthene	0.03	J	ug/l	0.10	0.01
Chrysene	0.02	J	ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	0.03	J	ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	0.03	J	ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	0.04	J	ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 11/20/21 18:53
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 11/18/21 21:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 06 Batch: WG1573313-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	56		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	76		10-120
4-Terphenyl-d14	89		41-149

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/26/21 19:55
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 11/19/21 07:29

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 06 Batch: WG1573434-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/26/21 19:55
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 11/19/21 07:29

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 06 Batch: WG1573434-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	106		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	106		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	113		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	107		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	107		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	114		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	106		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**160**	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	109		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	110		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	105		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	160		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	103		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	108		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	45		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	120		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	86		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	75		22-136

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/30/21 12:35
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 11/19/21 07:29

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 06 Batch: WG1573434-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	85		10-112

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/21/21 08:44
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 11/20/21 07:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1573937-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	140	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	18.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	170	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	140	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	140	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/21/21 08:44
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 11/20/21 07:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1573937-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	22.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	29.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	30.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	140	26.
2,4-Dimethylphenol	ND		ug/kg	160	53.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/21/21 08:44
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 11/20/21 07:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1573937-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	75.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	67		10-136
4-Terphenyl-d14	68		18-120

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/01/21 23:29
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 11/22/21 10:06

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-05 Batch: WG1574344-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/01/21 23:29
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 11/22/21 10:06

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-05 Batch: WG1574344-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	96		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	129		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	86		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	110		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**188**	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	113		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	107		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**200**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**144**	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	109		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**8**	Q	10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**142**	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	91		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	78		24-159

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/02/21 12:51
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 11/22/21 10:06

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-05 Batch: WG1574344-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	98		10-117

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 12/03/21 21:24
Analyst: DB

Extraction Method: EPA 3510C
Extraction Date: 11/21/21 09:15

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 06 Batch: WG1579825-1					
1,4-Dioxane	ND		ng/l	150	33.9

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	54		15-110

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1573312-2 WG1573312-3								
Acenaphthene	66		78		37-111	17		30
1,2,4-Trichlorobenzene	64		72		39-98	12		30
Hexachlorobenzene	81		92		40-140	13		30
Bis(2-chloroethyl)ether	56		66		40-140	16		30
2-Chloronaphthalene	65		80		40-140	21		30
1,2-Dichlorobenzene	60		65		40-140	8		30
1,3-Dichlorobenzene	54		62		40-140	14		30
1,4-Dichlorobenzene	58		64		36-97	10		30
3,3'-Dichlorobenzidine	55		62		40-140	12		30
2,4-Dinitrotoluene	72		82		48-143	13		30
2,6-Dinitrotoluene	70		85		40-140	19		30
Fluoranthene	78		88		40-140	12		30
4-Chlorophenyl phenyl ether	78		85		40-140	9		30
4-Bromophenyl phenyl ether	81		96		40-140	17		30
Bis(2-chloroisopropyl)ether	45		53		40-140	16		30
Bis(2-chloroethoxy)methane	58		65		40-140	11		30
Hexachlorobutadiene	71		89		40-140	23		30
Hexachlorocyclopentadiene	56		68		40-140	19		30
Hexachloroethane	55		60		40-140	9		30
Isophorone	58		67		40-140	14		30
Naphthalene	62		71		40-140	14		30
Nitrobenzene	56		67		40-140	18		30
NDPA/DPA	73		84		40-140	14		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1573312-2 WG1573312-3								
n-Nitrosodi-n-propylamine	64		67		29-132	5		30
Bis(2-ethylhexyl)phthalate	67		81		40-140	19		30
Butyl benzyl phthalate	71		83		40-140	16		30
Di-n-butylphthalate	71		83		40-140	16		30
Di-n-octylphthalate	71		81		40-140	13		30
Diethyl phthalate	74		85		40-140	14		30
Dimethyl phthalate	71		84		40-140	17		30
Benzo(a)anthracene	75		88		40-140	16		30
Benzo(a)pyrene	79		88		40-140	11		30
Benzo(b)fluoranthene	76		88		40-140	15		30
Benzo(k)fluoranthene	79		89		40-140	12		30
Chrysene	72		85		40-140	17		30
Acenaphthylene	66		80		45-123	19		30
Anthracene	70		81		40-140	15		30
Benzo(ghi)perylene	79		86		40-140	8		30
Fluorene	72		82		40-140	13		30
Phenanthrene	68		84		40-140	21		30
Dibenzo(a,h)anthracene	81		88		40-140	8		30
Indeno(1,2,3-cd)pyrene	80		88		40-140	10		30
Pyrene	75		88		26-127	16		30
Biphenyl	70		82		40-140	16		30
4-Chloroaniline	43		46		40-140	7		30
2-Nitroaniline	71		81		52-143	13		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1573312-2 WG1573312-3								
3-Nitroaniline	57		69		25-145	19		30
4-Nitroaniline	65		76		51-143	16		30
Dibenzofuran	70		82		40-140	16		30
2-Methylnaphthalene	64		77		40-140	18		30
1,2,4,5-Tetrachlorobenzene	81		92		2-134	13		30
Acetophenone	60		67		39-129	11		30
2,4,6-Trichlorophenol	72		90		30-130	22		30
p-Chloro-m-cresol	77		88		23-97	13		30
2-Chlorophenol	62		71		27-123	14		30
2,4-Dichlorophenol	73		80		30-130	9		30
2,4-Dimethylphenol	55		64		30-130	15		30
2-Nitrophenol	62		70		30-130	12		30
4-Nitrophenol	62		67		10-80	8		30
2,4-Dinitrophenol	61		61		20-130	0		30
4,6-Dinitro-o-cresol	67		75		20-164	11		30
Pentachlorophenol	68		71		9-103	4		30
Phenol	49		57		12-110	15		30
2-Methylphenol	61		70		30-130	14		30
3-Methylphenol/4-Methylphenol	63		72		30-130	13		30
2,4,5-Trichlorophenol	78		91		30-130	15		30
Benzoic Acid	37		25		10-164	**39**	Q	30
Benzyl Alcohol	59		69		26-116	16		30
Carbazole	75		88		55-144	16		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1573312-2 WG1573312-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	56		64		21-120
Phenol-d6	48		53		10-120
Nitrobenzene-d5	58		63		23-120
2-Fluorobiphenyl	65		77		15-120
2,4,6-Tribromophenol	80		92		10-120
4-Terphenyl-d14	81		96		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 06 Batch: WG1573313-2 WG1573313-3								
Acenaphthene	66		77		40-140	15		40
2-Chloronaphthalene	65		74		40-140	13		40
Fluoranthene	76		85		40-140	11		40
Hexachlorobutadiene	60		68		40-140	13		40
Naphthalene	65		74		40-140	13		40
Benzo(a)anthracene	74		83		40-140	11		40
Benzo(a)pyrene	77		88		40-140	13		40
Benzo(b)fluoranthene	82		96		40-140	16		40
Benzo(k)fluoranthene	77		84		40-140	9		40
Chrysene	71		78		40-140	9		40
Acenaphthylene	68		77		40-140	12		40
Anthracene	72		81		40-140	12		40
Benzo(ghi)perylene	74		84		40-140	13		40
Fluorene	69		80		40-140	15		40
Phenanthrene	71		81		40-140	13		40
Dibenzo(a,h)anthracene	83		93		40-140	11		40
Indeno(1,2,3-cd)pyrene	88		100		40-140	13		40
Pyrene	75		84		40-140	11		40
2-Methylnaphthalene	72		82		40-140	13		40
Pentachlorophenol	64		74		40-140	14		40
Hexachlorobenzene	69		80		40-140	15		40
Hexachloroethane	56		63		40-140	12		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 06 Batch: WG1573313-2 WG1573313-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	61		70		21-120
Phenol-d6	54		61		10-120
Nitrobenzene-d5	62		69		23-120
2-Fluorobiphenyl	69		78		15-120
2,4,6-Tribromophenol	71		79		10-120
4-Terphenyl-d14	78		86		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06 Batch: WG1573434-2								
Perfluorobutanoic Acid (PFBA)	101		-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	100		-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	97		-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	100		-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	102		-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	113		-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	105		-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	125		-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	104		-		61-179	-		30
Perfluorononanoic Acid (PFNA)	98		-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	114		-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	104		-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	108		-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	116		-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	104		-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	101		-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	101		-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	108		-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	99		-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	126		-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	106		-		59-182	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06 Batch: WG1573434-2

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	103				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100				62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	113				70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	106				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	106				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	112				71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	102				62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**160**	Q			14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	106				59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108				69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101				62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**168**	Q			10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	106				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	98				55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	35				10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	113				27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	88				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	72				22-136

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06 Batch: WG1573434-2								
Perfluorooctanesulfonamide (FOSA)	111		-		46-170	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	68				10-112

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1573937-2 WG1573937-3								
Acenaphthene	95		76		31-137	22		50
1,2,4-Trichlorobenzene	96		78		38-107	21		50
Hexachlorobenzene	97		77		40-140	23		50
Bis(2-chloroethyl)ether	94		75		40-140	22		50
2-Chloronaphthalene	99		80		40-140	21		50
1,2-Dichlorobenzene	94		73		40-140	25		50
1,3-Dichlorobenzene	89		71		40-140	23		50
1,4-Dichlorobenzene	89		72		28-104	21		50
3,3'-Dichlorobenzidine	74		60		40-140	21		50
2,4-Dinitrotoluene	103		84		40-132	20		50
2,6-Dinitrotoluene	102		86		40-140	17		50
Fluoranthene	96		73		40-140	27		50
4-Chlorophenyl phenyl ether	94		76		40-140	21		50
4-Bromophenyl phenyl ether	99		80		40-140	21		50
Bis(2-chloroisopropyl)ether	134		104		40-140	25		50
Bis(2-chloroethoxy)methane	94		80		40-117	16		50
Hexachlorobutadiene	105		82		40-140	25		50
Hexachlorocyclopentadiene	94		76		40-140	21		50
Hexachloroethane	102		80		40-140	24		50
Isophorone	100		84		40-140	17		50
Naphthalene	95		75		40-140	24		50
Nitrobenzene	104		83		40-140	22		50
NDPA/DPA	94		78		36-157	19		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1573937-2 WG1573937-3								
n-Nitrosodi-n-propylamine	101		85		32-121	17		50
Bis(2-ethylhexyl)phthalate	110		90		40-140	20		50
Butyl benzyl phthalate	109		82		40-140	28		50
Di-n-butylphthalate	107		84		40-140	24		50
Di-n-octylphthalate	112		89		40-140	23		50
Diethyl phthalate	106		87		40-140	20		50
Dimethyl phthalate	100		84		40-140	17		50
Benzo(a)anthracene	94		75		40-140	22		50
Benzo(a)pyrene	99		73		40-140	30		50
Benzo(b)fluoranthene	98		75		40-140	27		50
Benzo(k)fluoranthene	98		70		40-140	33		50
Chrysene	99		79		40-140	22		50
Acenaphthylene	100		82		40-140	20		50
Anthracene	98		78		40-140	23		50
Benzo(ghi)perylene	99		75		40-140	28		50
Fluorene	96		78		40-140	21		50
Phenanthrene	97		75		40-140	26		50
Dibenzo(a,h)anthracene	100		74		40-140	30		50
Indeno(1,2,3-cd)pyrene	104		79		40-140	27		50
Pyrene	96		73		35-142	27		50
Biphenyl	102		83		37-127	21		50
4-Chloroaniline	117		86		40-140	31		50
2-Nitroaniline	104		86		47-134	19		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1573937-2 WG1573937-3								
3-Nitroaniline	81		68		26-129	17		50
4-Nitroaniline	93		73		41-125	24		50
Dibenzofuran	97		76		40-140	24		50
2-Methylnaphthalene	101		81		40-140	22		50
1,2,4,5-Tetrachlorobenzene	102		81		40-117	23		50
Acetophenone	104		85		14-144	20		50
2,4,6-Trichlorophenol	100		84		30-130	17		50
p-Chloro-m-cresol	**108**	Q	90		26-103	18		50
2-Chlorophenol	98		78		25-102	23		50
2,4-Dichlorophenol	98		85		30-130	14		50
2,4-Dimethylphenol	106		92		30-130	14		50
2-Nitrophenol	100		84		30-130	17		50
4-Nitrophenol	112		88		11-114	24		50
2,4-Dinitrophenol	50		37		4-130	30		50
4,6-Dinitro-o-cresol	89		77		10-130	14		50
Pentachlorophenol	95		81		17-109	16		50
Phenol	**92**	Q	76		26-90	19		50
2-Methylphenol	99		83		30-130.	18		50
3-Methylphenol/4-Methylphenol	105		87		30-130	19		50
2,4,5-Trichlorophenol	102		88		30-130	15		50
Benzoic Acid	**6**	Q	**4**	Q	10-110	**51**	Q	50
Benzyl Alcohol	109		89		40-140	20		50
Carbazole	96		74		54-128	26		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1573937-2 WG1573937-3								
1,4-Dioxane	78		46		40-140	**52**	Q	50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	93		74		25-120
Phenol-d6	95		79		10-120
Nitrobenzene-d5	100		82		23-120
2-Fluorobiphenyl	88		72		30-120
2,4,6-Tribromophenol	98		81		10-136
4-Terphenyl-d14	91		68		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 Batch: WG1574344-2								
Perfluorobutanoic Acid (PFBA)	92		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	93		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	92		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	92		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	94		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	98		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	94		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	103		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	85		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	96		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	98		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	95		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	68		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	85		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	104		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	95		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	69		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	99		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	94		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	101		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	90		-		69-133	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 Batch: WG1574344-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	103				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	133				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	93				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	100				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	103				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	105				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**195**	Q			20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	110				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	99				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**280**	Q			19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**156**	Q			31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	108				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	11				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**139**	Q			34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	98				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	85				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab	Associated sample(s): 01-05		Batch: WG1574344-2					
Perfluorooctanesulfonamide (FOSA)	110		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	97				10-117

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 06 Batch: WG1579825-2 WG1579825-3								
1,4-Dioxane	123		125		40-140	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	54		53		15-110

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1573434-3 QC Sample: L2162627-08 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	39.8	40.0	101		-	-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	ND	39.8	39.8	100		-	-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	35.3	34.7	98		-	-		65-157	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	37.2	40.8	110		-	-		37-219	-		30
Perfluorohexanoic Acid (PFHxA)	ND	39.8	39.8	100		-	-		69-168	-		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	37.4	39.8	106		-	-		52-156	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	39.8	40.8	103		-	-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	36.4	39.7	109		-	-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	ND	39.8	41.0	103		-	-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	37.9	44.7	118		-	-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	37.9	38.5	102		-	-		61-179	-		30
Perfluorononanoic Acid (PFNA)	ND	39.8	39.6	100		-	-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	ND	36.9	41.6	113		-	-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	ND	39.8	41.6	105		-	-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	38.2	42.7	112		-	-		56-173	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	38.2	36.2	95		-	-		48-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	39.8	42.5F	107		-	-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	39.8	39.6	100		-	-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	38.3	31.1	81		-	-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	ND	39.8	38.4	97		-	-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	39.8	43.6	110		-	-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	ND	39.8	43.3	109		-	-		67-153	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1573434-3 QC Sample: L2162627-08 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	39.8	59.0	148		-	-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	39.8	41.3	104		-	-		59-182	-		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**308**	Q			10-162
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	**176**	Q			12-142
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**166**	Q			14-147
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	74				27-126
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	112				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	78				55-137
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98				62-124
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	102				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	102				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	109				71-134
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	70				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	66				22-136
Perfluoro[13C4]Butanoic Acid (MPFBA)	101				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	98				62-163
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	20				10-112
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106				69-131
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100				62-129
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	106				59-139
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	109				70-131

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1573937-4 WG1573937-5 QC Sample: L2163081-01 Client ID: EP03_1												
Acenaphthene	ND	1490	1000	67		850	58		31-137	16		50
1,2,4-Trichlorobenzene	ND	1490	950	64		800	55		38-107	17		50
Hexachlorobenzene	ND	1490	1000	67		840	58		40-140	17		50
Bis(2-chloroethyl)ether	ND	1490	940	63		790	54		40-140	17		50
2-Chloronaphthalene	ND	1490	1000	67		860	59		40-140	15		50
1,2-Dichlorobenzene	ND	1490	950	64		830	57		40-140	13		50
1,3-Dichlorobenzene	ND	1490	930	62		810	56		40-140	14		50
1,4-Dichlorobenzene	ND	1490	910	61		810	56		28-104	12		50
3,3'-Dichlorobenzidine	ND	1490	670	45		750	51		40-140	11		50
2,4-Dinitrotoluene	ND	1490	1000	67		890	61		40-132	12		50
2,6-Dinitrotoluene	ND	1490	1100	74		910	62		40-140	19		50
Fluoranthene	ND	1490	1000	67		830	57		40-140	19		50
4-Chlorophenyl phenyl ether	ND	1490	990	66		820	56		40-140	19		50
4-Bromophenyl phenyl ether	ND	1490	960	64		850	58		40-140	12		50
Bis(2-chloroisopropyl)ether	ND	1490	1300	87		1100	76		40-140	17		50
Bis(2-chloroethoxy)methane	ND	1490	940	63		800	55		40-117	16		50
Hexachlorobutadiene	ND	1490	1100	74		920	63		40-140	18		50
Hexachlorocyclopentadiene	ND	1490	940	63		770	53		40-140	20		50
Hexachloroethane	ND	1490	1000	67		900	62		40-140	11		50
Isophorone	ND	1490	990	66		830	57		40-140	18		50
Naphthalene	ND	1490	960	64		810	56		40-140	17		50
Nitrobenzene	ND	1490	1000	67		850	58		40-140	16		50
NDPA/DPA	ND	1490	1000	67		850	58		36-157	16		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1573937-4 WG1573937-5 QC Sample: L2163081-01 Client ID: EP03_1												
n-Nitrosodi-n-propylamine	ND	1490	1000	67		840	58		32-121	17		50
Bis(2-ethylhexyl)phthalate	ND	1490	1100	74		940	65		40-140	16		50
Butyl benzyl phthalate	ND	1490	1100	74		950	65		40-140	15		50
Di-n-butylphthalate	ND	1490	1100	74		900	62		40-140	20		50
Di-n-octylphthalate	ND	1490	1100	74		950	65		40-140	15		50
Diethyl phthalate	ND	1490	1100	74		920	63		40-140	18		50
Dimethyl phthalate	ND	1490	1000	67		890	61		40-140	12		50
Benzo(a)anthracene	ND	1490	970	65		840	58		40-140	14		50
Benzo(a)pyrene	ND	1490	990	66		850	58		40-140	15		50
Benzo(b)fluoranthene	ND	1490	1000	67		840	58		40-140	17		50
Benzo(k)fluoranthene	ND	1490	970	65		860	59		40-140	12		50
Chrysene	ND	1490	1000	67		840	58		40-140	17		50
Acenaphthylene	ND	1490	1000	67		850	58		40-140	16		50
Anthracene	ND	1490	980	66		840	58		40-140	15		50
Benzo(ghi)perylene	ND	1490	1000	67		860	59		40-140	15		50
Fluorene	ND	1490	1000	67		850	58		40-140	16		50
Phenanthrene	ND	1490	980	66		840	58		40-140	15		50
Dibenzo(a,h)anthracene	ND	1490	990	66		850	58		40-140	15		50
Indeno(1,2,3-cd)pyrene	ND	1490	1000	67		900	62		40-140	11		50
Pyrene	ND	1490	1000	67		830	57		35-142	19		50
Biphenyl	ND	1490	1000	67		860	59		37-127	15		50
4-Chloroaniline	ND	1490	1300	87		970	67		40-140	29		50
2-Nitroaniline	ND	1490	1100	74		900	62		47-134	20		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1573937-4 WG1573937-5 QC Sample: L2163081-01 Client ID: EP03_1												
3-Nitroaniline	ND	1490	850	57		800	55		26-129	6		50
4-Nitroaniline	ND	1490	970	65		800	55		41-125	19		50
Dibenzofuran	ND	1490	990	66		830	57		40-140	18		50
2-Methylnaphthalene	ND	1490	1000	67		860	59		40-140	15		50
1,2,4,5-Tetrachlorobenzene	ND	1490	1000	67		890	61		40-117	12		50
Acetophenone	ND	1490	1000	67		860	59		14-144	15		50
2,4,6-Trichlorophenol	ND	1490	1000	67		870	60		30-130	14		50
p-Chloro-m-cresol	ND	1490	1100	74		930	64		26-103	17		50
2-Chlorophenol	ND	1490	1000	67		820	56		25-102	20		50
2,4-Dichlorophenol	ND	1490	990	66		830	57		30-130	18		50
2,4-Dimethylphenol	ND	1490	1100	74		910	62		30-130	19		50
2-Nitrophenol	ND	1490	1000	67		830	57		30-130	19		50
4-Nitrophenol	ND	1490	1100	74		880	60		11-114	22		50
2,4-Dinitrophenol	ND	1490	ND	**0**	Q	92J	6		4-130	NC		50
4,6-Dinitro-o-cresol	ND	1490	720	48		690	47		10-130	4		50
Pentachlorophenol	ND	1490	870	58		730	50		17-109	18		50
Phenol	ND	1490	920	62		780	54		26-90	16		50
2-Methylphenol	ND	1490	1000	67		850	58		30-130.	16		50
3-Methylphenol/4-Methylphenol	ND	1490	1000	67		860	59		30-130	15		50
2,4,5-Trichlorophenol	ND	1490	1000	67		880	60		30-130	13		50
Benzoic Acid	ND	1490	ND	**0**	Q	ND	**0**	Q	10-110	NC		50
Benzyl Alcohol	ND	1490	1100	74		880	60		40-140	22		50
Carbazole	ND	1490	980	66		820	56		54-128	18		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1573937-4 WG1573937-5 QC Sample: L2163081-01 Client ID: EP03_1												
1,4-Dioxane	ND	1490	750	50		690	47		40-140	8		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	69		57		10-136
2-Fluorobiphenyl	62		52		30-120
2-Fluorophenol	63		52		25-120
4-Terphenyl-d14	61		52		18-120
Nitrobenzene-d5	66		56		23-120
Phenol-d6	62		53		10-120

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1573937-6 WG1573937-7 QC Sample: L2163081-02 Client ID: EP11_1												
Acenaphthene	ND	1390	1100	79		1000	72		31-137	10		50
1,2,4-Trichlorobenzene	ND	1390	1000	72		960	69		38-107	4		50
Hexachlorobenzene	ND	1390	1100	79		1000	72		40-140	10		50
Bis(2-chloroethyl)ether	ND	1390	1000	72		960	69		40-140	4		50
2-Chloronaphthalene	ND	1390	1100	79		1000	72		40-140	10		50
1,2-Dichlorobenzene	ND	1390	1000	72		950	68		40-140	5		50
1,3-Dichlorobenzene	ND	1390	1000	72		910	65		40-140	9		50
1,4-Dichlorobenzene	ND	1390	1000	72		920	66		28-104	8		50
3,3'-Dichlorobenzidine	ND	1390	780	56		730	52		40-140	7		50
2,4-Dinitrotoluene	ND	1390	1200	87		1000	72		40-132	18		50
2,6-Dinitrotoluene	ND	1390	1200	87		1100	79		40-140	9		50
Fluoranthene	ND	1390	1100	79		1000	72		40-140	10		50
4-Chlorophenyl phenyl ether	ND	1390	1100	79		1000	72		40-140	10		50
4-Bromophenyl phenyl ether	ND	1390	1100	79		1000	72		40-140	10		50
Bis(2-chloroisopropyl)ether	ND	1390	1400	100		1400	100		40-140	0		50
Bis(2-chloroethoxy)methane	ND	1390	1100	79		990	71		40-117	11		50
Hexachlorobutadiene	ND	1390	1100	79		1100	79		40-140	0		50
Hexachlorocyclopentadiene	ND	1390	1000	72		1000	72		40-140	0		50
Hexachloroethane	ND	1390	1100	79		1000	72		40-140	10		50
Isophorone	ND	1390	1100	79		1000	72		40-140	10		50
Naphthalene	ND	1390	1000	72		980	70		40-140	2		50
Nitrobenzene	ND	1390	1200	87		1000	72		40-140	18		50
NDPA/DPA	ND	1390	1100	79		1000	72		36-157	10		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1573937-6 WG1573937-7 QC Sample: L2163081-02 Client ID: EP11_1												
n-Nitrosodi-n-propylamine	ND	1390	1100	79		1000	72		32-121	10		50
Bis(2-ethylhexyl)phthalate	ND	1390	1200	87		1200	86		40-140	0		50
Butyl benzyl phthalate	ND	1390	1200	87		1100	79		40-140	9		50
Di-n-butylphthalate	ND	1390	1200	87		1100	79		40-140	9		50
Di-n-octylphthalate	ND	1390	1300	94		1200	86		40-140	8		50
Diethyl phthalate	ND	1390	1200	87		1100	79		40-140	9		50
Dimethyl phthalate	ND	1390	1200	87		1100	79		40-140	9		50
Benzo(a)anthracene	ND	1390	1100	79		990	71		40-140	11		50
Benzo(a)pyrene	ND	1390	1100	79		1000	72		40-140	10		50
Benzo(b)fluoranthene	ND	1390	1100	79		980	70		40-140	12		50
Benzo(k)fluoranthene	ND	1390	1100	79		990	71		40-140	11		50
Chrysene	ND	1390	1100	79		1000	72		40-140	10		50
Acenaphthylene	ND	1390	1100	79		1000	72		40-140	10		50
Anthracene	ND	1390	1100	79		1000	72		40-140	10		50
Benzo(ghi)perylene	ND	1390	1100	79		1000	72		40-140	10		50
Fluorene	ND	1390	1100	79		1000	72		40-140	10		50
Phenanthrene	ND	1390	1100	79		990	71		40-140	11		50
Dibenzo(a,h)anthracene	ND	1390	1100	79		1000	72		40-140	10		50
Indeno(1,2,3-cd)pyrene	ND	1390	1200	87		1100	79		40-140	9		50
Pyrene	ND	1390	1100	79		1000	72		35-142	10		50
Biphenyl	ND	1390	1100	79		1100	79		37-127	0		50
4-Chloroaniline	ND	1390	1300	94		1200	86		40-140	8		50
2-Nitroaniline	ND	1390	1200	87		1000	72		47-134	18		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1573937-6 WG1573937-7 QC Sample: L2163081-02 Client ID: EP11_1												
3-Nitroaniline	ND	1390	910	66		890	64		26-129	2		50
4-Nitroaniline	ND	1390	1000	72		980	70		41-125	2		50
Dibenzofuran	ND	1390	1100	79		990	71		40-140	11		50
2-Methylnaphthalene	ND	1390	1100	79		1000	72		40-140	10		50
1,2,4,5-Tetrachlorobenzene	ND	1390	1200	87		1100	79		40-117	9		50
Acetophenone	ND	1390	1100	79		1000	72		14-144	10		50
2,4,6-Trichlorophenol	ND	1390	1100	79		1000	72		30-130	10		50
p-Chloro-m-cresol	ND	1390	1200	87		1100	79		26-103	9		50
2-Chlorophenol	ND	1390	1100	79		970	70		25-102	13		50
2,4-Dichlorophenol	ND	1390	1100	79		1000	72		30-130	10		50
2,4-Dimethylphenol	ND	1390	1200	87		1100	79		30-130	9		50
2-Nitrophenol	ND	1390	1100	79		980	70		30-130	12		50
4-Nitrophenol	ND	1390	1100	79		950	68		11-114	15		50
2,4-Dinitrophenol	ND	1390	ND	**0**	Q	ND	**0**	Q	4-130	NC		50
4,6-Dinitro-o-cresol	ND	1390	650	47		560	40		10-130	15		50
Pentachlorophenol	ND	1390	990	71		910	65		17-109	8		50
Phenol	ND	1390	1000	72		920	66		26-90	8		50
2-Methylphenol	ND	1390	1100	79		990	71		30-130.	11		50
3-Methylphenol/4-Methylphenol	ND	1390	1200	87		1000	72		30-130	18		50
2,4,5-Trichlorophenol	ND	1390	1200	87		1100	79		30-130	9		50
Benzoic Acid	ND	1390	ND	**0**	Q	ND	**0**	Q	10-110	NC		50
Benzyl Alcohol	ND	1390	1200	87		1100	79		40-140	9		50
Carbazole	ND	1390	1100	79		990	71		54-128	11		50

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1573937-6 WG1573937-7 QC Sample: L2163081-02 Client ID: EP11_1												
1,4-Dioxane	ND	1390	890	64		600	43		40-140	39		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	85		75		10-136
2-Fluorobiphenyl	74		68		30-120
2-Fluorophenol	73		65		25-120
4-Terphenyl-d14	73		67		18-120
Nitrobenzene-d5	81		70		23-120
Phenol-d6	77		68		10-120

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1574344-3 WG1574344-4 QC Sample: L2163081-01 Client ID: EP03_1												
Perfluorobutanoic Acid (PFBA)	ND	5.29	5.07	96		4.90	95		71-135	3		30
Perfluoropentanoic Acid (PFPeA)	ND	5.29	5.06	96		4.85	94		69-132	4		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.7	4.47	95		4.36	95		72-128	2		30
Perfluorohexanoic Acid (PFHxA)	ND	5.29	4.92	93		4.83	94		70-132	2		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.29	5.00	95		5.08	99		71-131	2		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.83	4.64	96		5.02	107		67-130	8		30
Perfluorooctanoic Acid (PFOA)	ND	5.29	4.95	94		4.97	96		69-133	0		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.03	5.42	108		5.02	102		64-140	8		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.03	4.67	93		4.50	92		70-132	4		30
Perfluorononanoic Acid (PFNA)	ND	5.29	5.10	96		5.11	99		72-129	0		30
Perfluorooctanesulfonic Acid (PFOS)	ND	4.91	5.16	105		4.89	102		68-136	5		30
Perfluorodecanoic Acid (PFDA)	ND	5.29	5.42	102		5.45	106		69-133	1		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.08	3.03	**60**	Q	3.91	79		65-137	25		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.29	5.78	109		5.07	98		63-144	13		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.29	5.16	98		4.84	94		64-136	6		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.1	5.59	110		5.10	103		59-134	9		30
Perfluorooctanesulfonamide (FOSA)	ND	5.29	5.81F	110		5.12F	99		67-137	13		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.29	5.88	111		5.47F	106		61-139	7		30
Perfluorododecanoic Acid (PFDoA)	ND	5.29	4.97	94		4.73	92		69-135	5		30
Perfluorotridecanoic Acid (PFTrDA)	ND	5.29	5.93	112		5.54	107		66-139	7		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.29	5.06	96		5.30	103		69-133	5		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1574344-3 WG1574344-4 QC Sample: L2163081-01 Client ID: EP03_1

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**287**	Q	**255**	Q	19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**171**	Q	**192**	Q	20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	104		120		34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	112		128		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103		114		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92		97		75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	84		94		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	91		101		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		99		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	90		95		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	71		78		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	95		103		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	122		133		58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	11		44		10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	94		105		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	94		104		75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		114		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	89		98		74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1574344-5 WG1574344-6 QC Sample: L2163081-02 Client ID: EP11_1												
Perfluorobutanoic Acid (PFBA)	ND	4.65	4.45	96		4.48	96		71-135	1		30
Perfluoropentanoic Acid (PFPeA)	ND	4.65	4.34	93		4.44	95		69-132	2		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.13	4.00	97		3.86	93		72-128	4		30
Perfluorohexanoic Acid (PFHxA)	ND	4.65	4.43	95		4.42	95		70-132	0		30
Perfluoroheptanoic Acid (PFHpA)	ND	4.65	4.28	92		4.55	98		71-131	6		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.25	4.23	100		4.16	98		67-130	2		30
Perfluorooctanoic Acid (PFOA)	ND	4.65	4.56	98		4.09	88		69-133	11		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.43	4.29	97		4.64	105		64-140	8		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.43	3.91	88		4.00	90		70-132	2		30
Perfluorononanoic Acid (PFNA)	ND	4.65	4.38	94		4.78	103		72-129	9		30
Perfluorooctanesulfonic Acid (PFOS)	0.150J	4.32	4.40	98		4.74	106		68-136	7		30
Perfluorodecanoic Acid (PFDA)	ND	4.65	4.58	98		5.05	109		69-133	10		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.47	3.29	74		3.58	80		65-137	8		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	4.65	4.26	92		4.38	94		63-144	3		30
Perfluoroundecanoic Acid (PFUnA)	ND	4.65	4.58	98		4.66	100		64-136	2		30
Perfluorodecanesulfonic Acid (PFDS)	ND	4.48	4.37	97		4.71	105		59-134	7		30
Perfluorooctanesulfonamide (FOSA)	ND	4.65	4.49	97		4.25	91		67-137	5		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	4.65	4.30	92		4.74	102		61-139	10		30
Perfluorododecanoic Acid (PFDoA)	ND	4.65	4.60	99		4.54	98		69-135	1		30
Perfluorotridecanoic Acid (PFTrDA)	ND	4.65	5.07	109		5.70	123		66-139	12		30
Perfluorotetradecanoic Acid (PFTA)	ND	4.65	3.78	81		4.22	91		69-133	11		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1574344-5 WG1574344-6 QC Sample: L2163081-02 Client ID: EP11_1

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**246**	Q	**236**	Q	19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**164**	Q	**184**	Q	20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	108		121		34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	118		121		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	120		117		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	104		103		75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	97		97		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	106		104		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	111		108		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93		97		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	101		97		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	107		108		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	141		140		58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	63		67		10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	116		104		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		109		75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	110		108		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	103		102		74-139

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1573434-4 QC Sample: L2162848-31 Client ID: DUP Sample						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/l	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/l	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/l	NC		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ng/l	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/l	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/l	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/l	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/l	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/l	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1573434-4 QC Sample: L2162848-31 Client ID: DUP Sample						
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/l	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/l	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	104		104		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100		99		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	108		113		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	**161**	Q	**177**	Q	12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	105		105		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	105		104		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	109		114		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		101		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**154**	Q	**151**	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	106		105		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		109		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101		98		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**201**	Q	**169**	Q	10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	96		89		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103		94		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	26		36		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	116		116		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	78		72		48-131

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1573434-4 QC Sample: L2162848-31 Client ID: DUP Sample

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	55		60		22-136

PCBS

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-01
Client ID: EP03_1
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 13:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/21/21 11:31
Analyst: CW
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 11/20/21 02:24
Cleanup Method: EPA 3665A
Cleanup Date: 11/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.2	3.30	1	A
Aroclor 1221	ND		ug/kg	37.2	3.72	1	A
Aroclor 1232	ND		ug/kg	37.2	7.88	1	A
Aroclor 1242	ND		ug/kg	37.2	5.01	1	A
Aroclor 1248	ND		ug/kg	37.2	5.58	1	A
Aroclor 1254	ND		ug/kg	37.2	4.07	1	A
Aroclor 1260	ND		ug/kg	37.2	6.87	1	A
Aroclor 1262	ND		ug/kg	37.2	4.72	1	A
Aroclor 1268	ND		ug/kg	37.2	3.85	1	A
PCBs, Total	ND		ug/kg	37.2	3.30	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-02
Client ID: EP11_1
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 13:20
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/21/21 11:55
Analyst: CW
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 11/20/21 02:24
Cleanup Method: EPA 3665A
Cleanup Date: 11/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.7	3.00	1	A
Aroclor 1221	ND		ug/kg	33.7	3.38	1	A
Aroclor 1232	ND		ug/kg	33.7	7.15	1	A
Aroclor 1242	ND		ug/kg	33.7	4.55	1	A
Aroclor 1248	ND		ug/kg	33.7	5.06	1	A
Aroclor 1254	ND		ug/kg	33.7	3.69	1	A
Aroclor 1260	ND		ug/kg	33.7	6.24	1	A
Aroclor 1262	ND		ug/kg	33.7	4.28	1	A
Aroclor 1268	ND		ug/kg	33.7	3.50	1	A
PCBs, Total	ND		ug/kg	33.7	3.00	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-03
Client ID: DUP03_111621
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 00:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/21/21 12:20
Analyst: CW
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 11/20/21 02:24
Cleanup Method: EPA 3665A
Cleanup Date: 11/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.4	3.50	1	A
Aroclor 1221	ND		ug/kg	39.4	3.95	1	A
Aroclor 1232	ND		ug/kg	39.4	8.36	1	A
Aroclor 1242	ND		ug/kg	39.4	5.31	1	A
Aroclor 1248	ND		ug/kg	39.4	5.91	1	A
Aroclor 1254	ND		ug/kg	39.4	4.31	1	A
Aroclor 1260	ND		ug/kg	39.4	7.29	1	A
Aroclor 1262	ND		ug/kg	39.4	5.01	1	A
Aroclor 1268	ND		ug/kg	39.4	4.08	1	A
PCBs, Total	ND		ug/kg	39.4	3.50	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	47		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	48		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2163081
Project Number: 170599501
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-04
Client ID: DUP04_111621
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 00:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/21/21 12:28
Analyst: CW
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 11/20/21 02:24
Cleanup Method: EPA 3665A
Cleanup Date: 11/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.3	3.75	1	A
Aroclor 1221	ND		ug/kg	42.3	4.23	1	A
Aroclor 1232	ND		ug/kg	42.3	8.96	1	A
Aroclor 1242	ND		ug/kg	42.3	5.70	1	A
Aroclor 1248	ND		ug/kg	42.3	6.34	1	A
Aroclor 1254	ND		ug/kg	42.3	4.62	1	A
Aroclor 1260	ND		ug/kg	42.3	7.81	1	A
Aroclor 1262	ND		ug/kg	42.3	5.37	1	A
Aroclor 1268	ND		ug/kg	42.3	4.38	1	A
PCBs, Total	ND		ug/kg	42.3	3.75	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-05
Client ID: EP10_1
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 14:30
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/21/21 12:36
Analyst: CW
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 11/20/21 02:24
Cleanup Method: EPA 3665A
Cleanup Date: 11/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.3	3.22	1	A
Aroclor 1221	ND		ug/kg	36.3	3.64	1	A
Aroclor 1232	ND		ug/kg	36.3	7.70	1	A
Aroclor 1242	ND		ug/kg	36.3	4.90	1	A
Aroclor 1248	ND		ug/kg	36.3	5.45	1	A
Aroclor 1254	ND		ug/kg	36.3	3.97	1	A
Aroclor 1260	ND		ug/kg	36.3	6.71	1	A
Aroclor 1262	ND		ug/kg	36.3	4.61	1	A
Aroclor 1268	ND		ug/kg	36.3	3.76	1	A
PCBs, Total	ND		ug/kg	36.3	3.22	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2163081
Project Number: 170599501
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-06
Client ID: FB04_111621
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 14:45
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 11/18/21 20:31
Analyst: JM

Extraction Method: EPA 3510C
Extraction Date: 11/18/21 09:04
Cleanup Method: EPA 3665A
Cleanup Date: 11/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	40		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	44		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 11/18/21 19:20
Analyst: JM

Extraction Method: EPA 3510C
Extraction Date: 11/18/21 08:56
Cleanup Method: EPA 3665A
Cleanup Date: 11/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 06 Batch: WG1573014-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 11/21/21 11:06
Analyst: CW

Extraction Method: EPA 3546
Extraction Date: 11/20/21 02:24
Cleanup Method: EPA 3665A
Cleanup Date: 11/20/21
Cleanup Method: EPA 3660B
Cleanup Date: 11/20/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-05 Batch: WG1573878-1						
Aroclor 1016	ND		ug/kg	32.8	2.91	A
Aroclor 1221	ND		ug/kg	32.8	3.28	A
Aroclor 1232	ND		ug/kg	32.8	6.95	A
Aroclor 1242	ND		ug/kg	32.8	4.42	A
Aroclor 1248	ND		ug/kg	32.8	4.92	A
Aroclor 1254	ND		ug/kg	32.8	3.59	A
Aroclor 1260	ND		ug/kg	32.8	6.06	A
Aroclor 1262	ND		ug/kg	32.8	4.16	A
Aroclor 1268	ND		ug/kg	32.8	3.40	A
PCBs, Total	ND		ug/kg	32.8	2.91	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	75		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 06 Batch: WG1573014-2 WG1573014-3									
Aroclor 1016	51		62		40-140	20		50	A
Aroclor 1260	50		61		40-140	20		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		53		30-150	A
Decachlorobiphenyl	46		54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	46		57		30-150	B
Decachlorobiphenyl	49		59		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1573878-2 WG1573878-3									
Aroclor 1016	72		77		40-140	7		50	A
Aroclor 1260	68		72		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		72		30-150	A
Decachlorobiphenyl	66		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		76		30-150	B
Decachlorobiphenyl	66		70		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1573878-4 WG1573878-5 QC Sample: L2163081-01 Client ID: EP03_1													
Aroclor 1016	ND	232	184	79		148	66		40-140	22		50	A
Aroclor 1260	ND	232	167	72		140	63		40-140	18		50	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		60		30-150	A
Decachlorobiphenyl	68		58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		62		30-150	B
Decachlorobiphenyl	69		56		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*	*Column*
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1573878-6 WG1573878-7 QC Sample: L2163081-02 Client ID: EP11_1													
Aroclor 1016	ND	218	132	61		179	85		40-140	30		50	A
Aroclor 1260	ND	218	126	58		175	83		40-140	33		50	A

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*	*Column*
2,4,5,6-Tetrachloro-m-xylene	54		78		30-150	A
Decachlorobiphenyl	55		82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		82		30-150	B
Decachlorobiphenyl	53		79		30-150	B

PESTICIDES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-01
Client ID: EP03_1
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 13:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/21/21 13:55
Analyst: SDC
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 11/20/21 09:23
Cleanup Method: EPA 3620B
Cleanup Date: 11/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.73	0.340	1	A
Lindane	ND		ug/kg	0.722	0.323	1	A
Alpha-BHC	ND		ug/kg	0.722	0.205	1	A
Beta-BHC	ND		ug/kg	1.73	0.657	1	A
Heptachlor	ND		ug/kg	0.867	0.389	1	A
Aldrin	ND		ug/kg	1.73	0.610	1	A
Heptachlor epoxide	ND		ug/kg	3.25	0.975	1	A
Endrin	ND		ug/kg	0.722	0.296	1	A
Endrin aldehyde	ND		ug/kg	2.17	0.758	1	A
Endrin ketone	ND	IP	ug/kg	1.73	0.446	1	A
Dieldrin	ND		ug/kg	1.08	0.542	1	A
4,4'-DDE	1.24	J	ug/kg	1.73	0.401	1	B
4,4'-DDD	2.16		ug/kg	1.73	0.618	1	B
4,4'-DDT	ND		ug/kg	3.25	1.39	1	A
Endosulfan I	ND		ug/kg	1.73	0.410	1	A
Endosulfan II	ND		ug/kg	1.73	0.579	1	A
Endosulfan sulfate	ND		ug/kg	0.722	0.344	1	A
Methoxychlor	ND		ug/kg	3.25	1.01	1	A
Toxaphene	ND		ug/kg	32.5	9.10	1	A
cis-Chlordane	ND		ug/kg	2.17	0.604	1	A
trans-Chlordane	ND		ug/kg	2.17	0.572	1	A
Chlordane	ND		ug/kg	14.4	5.74	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-01 Date Collected: 11/16/21 13:00

Client ID: EP03_1 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2163081
Project Number: 170599501
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-01
Client ID: EP03_1
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 13:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/21/21 22:14
Analyst: AR
Percent Solids: 89%
Methylation Date: 11/21/21 14:08

Extraction Method: EPA 8151A
Extraction Date: 11/20/21 10:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	184	11.6	1	A
2,4,5-T	ND		ug/kg	184	5.69	1	A
2,4,5-TP (Silvex)	ND		ug/kg	184	4.88	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	91		30-150	A
DCAA	76		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-02
Client ID: EP11_1
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 13:20
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/21/21 14:29
Analyst: SDC
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 11/20/21 09:23
Cleanup Method: EPA 3620B
Cleanup Date: 11/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	0.324	1	A
Lindane	ND		ug/kg	0.690	0.309	1	A
Alpha-BHC	ND		ug/kg	0.690	0.196	1	A
Beta-BHC	ND		ug/kg	1.66	0.628	1	A
Heptachlor	ND		ug/kg	0.828	0.371	1	A
Aldrin	ND		ug/kg	1.66	0.583	1	A
Heptachlor epoxide	ND		ug/kg	3.11	0.932	1	A
Endrin	ND		ug/kg	0.690	0.283	1	A
Endrin aldehyde	ND		ug/kg	2.07	0.725	1	A
Endrin ketone	ND		ug/kg	1.66	0.427	1	A
Dieldrin	ND		ug/kg	1.04	0.518	1	A
4,4'-DDE	ND		ug/kg	1.66	0.383	1	A
4,4'-DDD	ND		ug/kg	1.66	0.591	1	A
4,4'-DDT	ND		ug/kg	3.11	1.33	1	A
Endosulfan I	ND		ug/kg	1.66	0.391	1	A
Endosulfan II	ND		ug/kg	1.66	0.554	1	A
Endosulfan sulfate	ND		ug/kg	0.690	0.329	1	A
Methoxychlor	ND		ug/kg	3.11	0.967	1	A
Toxaphene	ND		ug/kg	31.1	8.70	1	A
cis-Chlordane	ND		ug/kg	2.07	0.577	1	A
trans-Chlordane	ND		ug/kg	2.07	0.547	1	A
Chlordane	ND		ug/kg	13.8	5.49	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-02 Date Collected: 11/16/21 13:20

Client ID: EP11_1 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2163081
Project Number: 170599501
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-02
Client ID: EP11_1
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 13:20
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/21/21 23:09
Analyst: AR
Percent Solids: 95%
Methylation Date: 11/21/21 14:08

Extraction Method: EPA 8151A
Extraction Date: 11/20/21 10:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	172	10.9	1	A
2,4,5-T	ND		ug/kg	172	5.34	1	A
2,4,5-TP (Silvex)	ND		ug/kg	172	4.59	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	92		30-150	A
DCAA	78		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-03
Client ID: DUP03_111621
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 00:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/21/21 15:03
Analyst: SDC
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 11/20/21 09:23
Cleanup Method: EPA 3620B
Cleanup Date: 11/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.90	0.372	1	A
Lindane	ND		ug/kg	0.790	0.353	1	A
Alpha-BHC	ND		ug/kg	0.790	0.224	1	A
Beta-BHC	ND		ug/kg	1.90	0.719	1	A
Heptachlor	ND		ug/kg	0.949	0.425	1	A
Aldrin	ND		ug/kg	1.90	0.668	1	A
Heptachlor epoxide	ND		ug/kg	3.56	1.07	1	A
Endrin	ND		ug/kg	0.790	0.324	1	A
Endrin aldehyde	ND		ug/kg	2.37	0.830	1	A
Endrin ketone	ND		ug/kg	1.90	0.488	1	A
Dieldrin	ND		ug/kg	1.18	0.593	1	A
4,4'-DDE	ND		ug/kg	1.90	0.439	1	A
4,4'-DDD	ND		ug/kg	1.90	0.677	1	A
4,4'-DDT	ND		ug/kg	3.56	1.52	1	A
Endosulfan I	ND		ug/kg	1.90	0.448	1	A
Endosulfan II	ND		ug/kg	1.90	0.634	1	A
Endosulfan sulfate	ND		ug/kg	0.790	0.376	1	A
Methoxychlor	ND		ug/kg	3.56	1.11	1	A
Toxaphene	ND		ug/kg	35.6	9.96	1	A
cis-Chlordane	ND		ug/kg	2.37	0.661	1	A
trans-Chlordane	ND		ug/kg	2.37	0.626	1	A
Chlordane	ND		ug/kg	15.8	6.28	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-03 Date Collected: 11/16/21 00:00

Client ID: DUP03_111621 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	115		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2163081
Project Number: 170599501
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-03
Client ID: DUP03_111621
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 00:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/22/21 01:17
Analyst: AR
Percent Solids: 82%
Methylation Date: 11/21/21 14:08

Extraction Method: EPA 8151A
Extraction Date: 11/20/21 10:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	200	12.6	1	A
2,4,5-T	ND		ug/kg	200	6.19	1	A
2,4,5-TP (Silvex)	ND		ug/kg	200	5.31	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	87		30-150	A
DCAA	73		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-04
Client ID: DUP04_111621
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 00:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/21/21 15:14
Analyst: SDC
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 11/20/21 09:23
Cleanup Method: EPA 3620B
Cleanup Date: 11/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.05	0.401	1	A
Lindane	ND		ug/kg	0.853	0.381	1	A
Alpha-BHC	ND		ug/kg	0.853	0.242	1	A
Beta-BHC	ND		ug/kg	2.05	0.776	1	A
Heptachlor	ND		ug/kg	1.02	0.459	1	A
Aldrin	ND		ug/kg	2.05	0.721	1	A
Heptachlor epoxide	ND		ug/kg	3.84	1.15	1	A
Endrin	ND		ug/kg	0.853	0.350	1	A
Endrin aldehyde	ND		ug/kg	2.56	0.895	1	A
Endrin ketone	ND		ug/kg	2.05	0.527	1	A
Dieldrin	ND		ug/kg	1.28	0.640	1	A
4,4'-DDE	ND		ug/kg	2.05	0.473	1	A
4,4'-DDD	ND		ug/kg	2.05	0.730	1	A
4,4'-DDT	ND		ug/kg	3.84	1.64	1	A
Endosulfan I	ND		ug/kg	2.05	0.484	1	A
Endosulfan II	ND		ug/kg	2.05	0.684	1	A
Endosulfan sulfate	ND		ug/kg	0.853	0.406	1	A
Methoxychlor	ND		ug/kg	3.84	1.19	1	A
Toxaphene	ND		ug/kg	38.4	10.7	1	A
cis-Chlordane	ND		ug/kg	2.56	0.713	1	A
trans-Chlordane	ND		ug/kg	2.56	0.675	1	A
Chlordane	ND		ug/kg	17.0	6.78	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-04 Date Collected: 11/16/21 00:00

Client ID: DUP04_111621 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	107		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2163081
Project Number: 170599501
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-04
Client ID: DUP04_111621
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 00:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/22/21 00:22
Analyst: AR
Percent Solids: 75%
Methylation Date: 11/21/21 14:08

Extraction Method: EPA 8151A
Extraction Date: 11/20/21 10:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	217	13.7	1	A
2,4,5-T	ND		ug/kg	217	6.73	1	A
2,4,5-TP (Silvex)	ND		ug/kg	217	5.77	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	85		30-150	A
DCAA	71		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-05
Client ID: EP10_1
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 14:30
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/21/21 15:25
Analyst: SDC
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 11/20/21 09:23
Cleanup Method: EPA 3620B
Cleanup Date: 11/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	0.332	1	A
Lindane	ND		ug/kg	0.707	0.316	1	A
Alpha-BHC	ND		ug/kg	0.707	0.201	1	A
Beta-BHC	ND		ug/kg	1.70	0.643	1	A
Heptachlor	ND		ug/kg	0.848	0.380	1	A
Aldrin	ND		ug/kg	1.70	0.597	1	A
Heptachlor epoxide	ND		ug/kg	3.18	0.954	1	A
Endrin	ND		ug/kg	0.707	0.290	1	A
Endrin aldehyde	ND		ug/kg	2.12	0.742	1	A
Endrin ketone	ND		ug/kg	1.70	0.437	1	A
Dieldrin	ND		ug/kg	1.06	0.530	1	A
4,4'-DDE	ND		ug/kg	1.70	0.392	1	A
4,4'-DDD	ND		ug/kg	1.70	0.605	1	A
4,4'-DDT	ND		ug/kg	3.18	1.36	1	A
Endosulfan I	ND		ug/kg	1.70	0.401	1	A
Endosulfan II	ND		ug/kg	1.70	0.567	1	A
Endosulfan sulfate	ND		ug/kg	0.707	0.336	1	A
Methoxychlor	ND		ug/kg	3.18	0.989	1	A
Toxaphene	ND		ug/kg	31.8	8.90	1	A
cis-Chlordane	ND		ug/kg	2.12	0.591	1	A
trans-Chlordane	ND		ug/kg	2.12	0.560	1	A
Chlordane	ND		ug/kg	14.1	5.62	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-05 Date Collected: 11/16/21 14:30

Client ID: EP10_1 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	100		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2163081
Project Number: 170599501
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-05
Client ID: EP10_1
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 14:30
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/22/21 00:40
Analyst: AR
Percent Solids: 90%
Methylation Date: 11/21/21 14:08

Extraction Method: EPA 8151A
Extraction Date: 11/20/21 10:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	184	11.6	1	A
2,4,5-T	ND		ug/kg	184	5.72	1	A
2,4,5-TP (Silvex)	ND		ug/kg	184	4.91	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	87		30-150	A
DCAA	72		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-06
Client ID: FB04_111621
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 14:45
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 11/19/21 16:10
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 11/18/21 09:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-06 Date Collected: 11/16/21 14:45

Client ID: FB04_111621 Date Received: 11/16/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	44		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	48		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: 1607 SURF AVENUE
Lab Number: L2163081
Project Number: 170599501
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-06
Client ID: FB04_111621
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 14:45
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 11/23/21 09:09
Analyst: AR

Extraction Method: EPA 8151A
Extraction Date: 11/21/21 13:46

Methylation Date: 11/22/21 15:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	72		30-150	A
DCAA	64		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/19/21 16:20
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 11/18/21 09:57

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 06 Batch: WG1573045-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/19/21 16:20
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 11/18/21 09:57

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 06 Batch: WG1573045-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	38		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	41		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/21/21 15:36
Analyst: SDC

Extraction Method: EPA 3546
Extraction Date: 11/20/21 09:23
Cleanup Method: EPA 3620B
Cleanup Date: 11/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1573975-1						
Delta-BHC	ND		ug/kg	1.57	0.308	A
Lindane	ND		ug/kg	0.655	0.293	A
Alpha-BHC	ND		ug/kg	0.655	0.186	A
Beta-BHC	ND		ug/kg	1.57	0.596	A
Heptachlor	ND		ug/kg	0.786	0.352	A
Aldrin	ND		ug/kg	1.57	0.554	A
Heptachlor epoxide	ND		ug/kg	2.95	0.885	A
Endrin	ND		ug/kg	0.655	0.269	A
Endrin aldehyde	ND		ug/kg	1.96	0.688	A
Endrin ketone	ND		ug/kg	1.57	0.405	A
Dieldrin	ND		ug/kg	0.983	0.491	A
4,4'-DDE	ND		ug/kg	1.57	0.364	A
4,4'-DDD	ND		ug/kg	1.57	0.561	A
4,4'-DDT	ND		ug/kg	2.95	1.26	A
Endosulfan I	ND		ug/kg	1.57	0.372	A
Endosulfan II	ND		ug/kg	1.57	0.526	A
Endosulfan sulfate	ND		ug/kg	0.655	0.312	A
Methoxychlor	ND		ug/kg	2.95	0.917	A
Toxaphene	ND		ug/kg	29.5	8.26	A
cis-Chlordane	ND		ug/kg	1.96	0.548	A
trans-Chlordane	ND		ug/kg	1.96	0.519	A
Chlordane	ND		ug/kg	13.1	5.21	A

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/21/21 15:36
Analyst: SDC

Extraction Method: EPA 3546
Extraction Date: 11/20/21 09:23
Cleanup Method: EPA 3620B
Cleanup Date: 11/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1573975-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 11/21/21 21:19
Analyst: AR

Extraction Method: EPA 8151A
Extraction Date: 11/20/21 10:25

Methylation Date: 11/21/21 14:08

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1573983-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.02	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.30	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	75		30-150	A
DCAA	62		30-150	B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 11/23/21 07:56
Analyst: AR

Extraction Method: EPA 8151A
Extraction Date: 11/21/21 13:46

Methylation Date: 11/22/21 15:33

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 06 Batch: WG1574192-1						
2,4-D	ND		ug/l	10.0	0.498	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	85		30-150	A
DCAA	75		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 06 Batch: WG1573045-2 WG1573045-3									
Delta-BHC	30		34		30-150	12		20	A
Lindane	47		52		30-150	10		20	A
Alpha-BHC	44		49		30-150	10		20	A
Beta-BHC	53		55		30-150	4		20	A
Heptachlor	54		58		30-150	8		20	A
Aldrin	46		50		30-150	8		20	A
Heptachlor epoxide	49		54		30-150	9		20	A
Endrin	51		57		30-150	11		20	A
Endrin aldehyde	38		46		30-150	19		20	A
Endrin ketone	56		65		30-150	15		20	A
Dieldrin	51		57		30-150	11		20	A
4,4'-DDE	48		54		30-150	11		20	A
4,4'-DDD	50		56		30-150	11		20	A
4,4'-DDT	48		56		30-150	15		20	A
Endosulfan I	48		53		30-150	11		20	A
Endosulfan II	51		59		30-150	14		20	A
Endosulfan sulfate	41		49		30-150	17		20	A
Methoxychlor	54		62		30-150	14		20	A
cis-Chlordane	42		47		30-150	11		20	A
trans-Chlordane	50		54		30-150	9		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 06 Batch: WG1573045-2 WG1573045-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	42		46		30-150	A
Decachlorobiphenyl	55		63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	46		50		30-150	B
Decachlorobiphenyl	55		63		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1573975-2 WG1573975-3									
Delta-BHC	85		76		30-150	11		30	A
Lindane	85		78		30-150	9		30	A
Alpha-BHC	73		68		30-150	7		30	A
Beta-BHC	80		75		30-150	6		30	A
Heptachlor	92		84		30-150	9		30	A
Aldrin	85		76		30-150	11		30	A
Heptachlor epoxide	71		62		30-150	14		30	A
Endrin	89		82		30-150	8		30	A
Endrin aldehyde	72		65		30-150	10		30	A
Endrin ketone	79		72		30-150	9		30	A
Dieldrin	91		84		30-150	8		30	A
4,4'-DDE	78		72		30-150	8		30	A
4,4'-DDD	103		95		30-150	8		30	A
4,4'-DDT	96		90		30-150	6		30	A
Endosulfan I	76		70		30-150	8		30	A
Endosulfan II	90		82		30-150	9		30	A
Endosulfan sulfate	89		83		30-150	7		30	A
Methoxychlor	95		85		30-150	11		30	A
cis-Chlordane	62		58		30-150	7		30	A
trans-Chlordane	102		93		30-150	9		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1573975-2 WG1573975-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		75		30-150	A
Decachlorobiphenyl	111		103		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		63		30-150	B
Decachlorobiphenyl	94		83		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1573983-2 WG1573983-3									
2,4-D	75		81		30-150	8		30	A
2,4,5-T	76		80		30-150	5		30	A
2,4,5-TP (Silvex)	74		77		30-150	4		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	73		80		30-150	A
DCAA	64		72		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 06 Batch: WG1574192-2 WG1574192-3									
2,4-D	85		81		30-150	5		25	A
2,4,5-T	88		85		30-150	3		25	A
2,4,5-TP (Silvex)	90		85		30-150	6		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	82		81		30-150	A
DCAA	83		81		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1573975-4 WG1573975-5 QC Sample: L2163081-01 Client ID: EP03_1													
Delta-BHC	ND	35.7	28.4	79		28.7	78		30-150	1		50	A
Lindane	ND	35.7	28.8	81		29.5	80		30-150	2		50	A
Alpha-BHC	ND	35.7	24.7	69		24.4	66		30-150	1		50	A
Beta-BHC	ND	35.7	26.7	75		29.0	78		30-150	8		50	A
Heptachlor	ND	35.7	30.2	85		31.1	84		30-150	3		50	A
Aldrin	ND	35.7	26.6	74		27.8	75		30-150	4		50	A
Heptachlor epoxide	ND	35.7	23.1	65		22.7	61		30-150	2		50	A
Endrin	ND	35.7	29.3	82		29.4	79		30-150	0		50	A
Endrin aldehyde	ND	35.7	23.7	66		23.2	63		30-150	2		50	A
Endrin ketone	NDIP	35.7	25.9	73		26.8	72		30-150	3		50	A
Dieldrin	ND	35.7	29.9	84		29.9	81		30-150	0		50	A
4,4'-DDE	1.24J	35.7	25.5	71		25.2	68		30-150	1		50	B
4,4'-DDD	2.16	35.7	27.3	70		27.3	68		30-150	0		50	B
4,4'-DDT	ND	35.7	30.9	86		30.7	83		30-150	1		50	A
Endosulfan I	ND	35.7	25.3	71		25.8	70		30-150	2		50	A
Endosulfan II	ND	35.7	29.6	83		28.8	78		30-150	3		50	A
Endosulfan sulfate	ND	35.7	28.8	81		27.6	75		30-150	4		50	A
Methoxychlor	ND	35.7	29.1	81		31.2	84		30-150	7		50	A
cis-Chlordane	ND	35.7	20.6	58		20.9	57		30-150	1		50	A
trans-Chlordane	ND	35.7	32.8	92		34.4	93		30-150	5		50	A

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1573975-4 WG1573975-5 QC Sample: L2163081-01 Client ID: EP03_1												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		73		30-150	A
Decachlorobiphenyl	94		101		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		65		30-150	B
Decachlorobiphenyl	74		74		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1573975-6 WG1573975-7 QC Sample: L2163081-02 Client ID: EP11_1													
Delta-BHC	ND	34.5	30.6	89		28.6	84		30-150	7		50	A
Lindane	ND	34.5	32.1	93		26.6	78		30-150	19		50	A
Alpha-BHC	ND	34.5	27.6	80		22.7	66		30-150	19		50	A
Beta-BHC	ND	34.5	32.4	94		25.6	75		30-150	23		50	A
Heptachlor	ND	34.5	31.7	92		28.3	83		30-150	11		50	A
Aldrin	ND	34.5	30.4	88		25.8	75		30-150	16		50	A
Heptachlor epoxide	ND	34.5	25.4	74		21.0	61		30-150	19		50	A
Endrin	ND	34.5	32.5	94		27.6	81		30-150	16		50	A
Endrin aldehyde	ND	34.5	25.2	73		21.5	63		30-150	16		50	A
Endrin ketone	ND	34.5	29.4	85		24.7	72		30-150	17		50	A
Dieldrin	ND	34.5	32.3	94		28.2	82		30-150	14		50	A
4,4'-DDE	ND	34.5	27.5	80		23.8	70		30-150	14		50	A
4,4'-DDD	ND	34.5	37.4	108		31.8	93		30-150	16		50	A
4,4'-DDT	ND	34.5	34.0	99		29.1	85		30-150	16		50	A
Endosulfan I	ND	34.5	27.2	79		23.7	69		30-150	14		50	A
Endosulfan II	ND	34.5	32.4	94		27.8	81		30-150	15		50	A
Endosulfan sulfate	ND	34.5	31.1	90		26.8	78		30-150	15		50	A
Methoxychlor	ND	34.5	32.6	95		27.5	80		30-150	17		50	A
cis-Chlordane	ND	34.5	22.3	65		19.3	56		30-150	14		50	A
trans-Chlordane	ND	34.5	36.4	106		31.3	92		30-150	15		50	A

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1573975-6 WG1573975-7 QC Sample: L2163081-02 Client ID: EP11_1												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		71		30-150	A
Decachlorobiphenyl	113		93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		65		30-150	B
Decachlorobiphenyl	92		75		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1573983-4 WG1573983-5 QC Sample: L2163081-01 Client ID: EP03_1													
2,4-D	ND	186	163J	88		148J	80		30-150	10		30	A
2,4,5-T	ND	186	160J	86		144J	77		30-150	11		30	A
2,4,5-TP (Silvex)	ND	186	163J	88		144J	77		30-150	12		30	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
DCAA	85		83		30-150	A
DCAA	74		72		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1573983-6 WG1573983-7 QC Sample: L2163081-02 Client ID: EP11_1													
2,4-D	ND	171	147J	86		148J	87		30-150	1		30	A
2,4,5-T	ND	171	142J	83		145J	85		30-150	2		30	A
2,4,5-TP (Silvex)	ND	171	141J	83		144J	84		30-150	2		30	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
DCAA	85		87		30-150	A
DCAA	74		77		30-150	B

METALS

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-01
Client ID: EP03_1
Sample Location: BROOKLYN, NY
Date Collected: 11/16/21 13:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	440		mg/kg	8.85	2.39	2	11/19/21 19:59	11/22/21 18:12	EPA 3050B	1,6010D	DL
Antimony, Total	1.90	J	mg/kg	4.42	0.336	2	11/19/21 19:59	11/22/21 18:12	EPA 3050B	1,6010D	DL
Arsenic, Total	0.602	J	mg/kg	0.885	0.184	2	11/19/21 19:59	11/22/21 18:12	EPA 3050B	1,6010D	DL
Barium, Total	2.68		mg/kg	0.885	0.154	2	11/19/21 19:59	11/22/21 18:12	EPA 3050B	1,6010D	DL
Beryllium, Total	0.035	J	mg/kg	0.442	0.029	2	11/19/21 19:59	11/22/21 18:12	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.885	0.087	2	11/19/21 19:59	11/22/21 18:12	EPA 3050B	1,6010D	DL
Calcium, Total	216		mg/kg	8.85	3.10	2	11/19/21 19:59	11/22/21 18:12	EPA 3050B	1,6010D	DL
Chromium, Total	2.43		mg/kg	0.885	0.085	2	11/19/21 19:59	11/22/21 18:12	EPA 3050B	1,6010D	DL
Cobalt, Total	0.380	J	mg/kg	1.77	0.147	2	11/19/21 19:59	11/22/21 18:12	EPA 3050B	1,6010D	DL
Copper, Total	1.13		mg/kg	0.885	0.228	2	11/19/21 19:59	11/22/21 18:12	EPA 3050B	1,6010D	DL
Iron, Total	802		mg/kg	4.42	0.799	2	11/19/21 19:59	11/22/21 18:12	EPA 3050B	1,6010D	DL
Lead, Total	6.10		mg/kg	4.42	0.237	2	11/19/21 19:59	11/22/21 18:12	EPA 3050B	1,6010D	DL
Magnesium, Total	184		mg/kg	8.85	1.36	2	11/19/21 19:59	11/22/21 20:39	EPA 3050B	1,6010D	DL
Manganese, Total	8.35		mg/kg	0.885	0.141	2	11/19/21 19:59	11/22/21 18:12	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.083	0.054	1	11/19/21 20:30	11/20/21 16:55	EPA 7471B	1,7471B	NB
Nickel, Total	1.09	J	mg/kg	2.21	0.214	2	11/19/21 19:59	11/22/21 18:12	EPA 3050B	1,6010D	DL
Potassium, Total	91.2	J	mg/kg	221	12.7	2	11/19/21 19:59	11/22/21 18:12	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	1.77	0.228	2	11/19/21 19:59	11/22/21 18:12	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.885	0.250	2	11/19/21 19:59	11/22/21 18:12	EPA 3050B	1,6010D	DL
Sodium, Total	12.5	J	mg/kg	177	2.79	2	11/19/21 19:59	11/22/21 18:12	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.77	0.279	2	11/19/21 19:59	11/22/21 18:12	EPA 3050B	1,6010D	DL
Vanadium, Total	1.69		mg/kg	0.885	0.180	2	11/19/21 19:59	11/22/21 18:12	EPA 3050B	1,6010D	DL
Zinc, Total	34.6		mg/kg	4.42	0.259	2	11/19/21 19:59	11/22/21 18:12	EPA 3050B	1,6010D	DL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.4		mg/kg	0.90	0.90	1		11/22/21 18:12	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2163081
Project Number: 170599501
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-02
Client ID: EP11_1
Sample Location: BROOKLYN, NY
Date Collected: 11/16/21 13:20
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	386		mg/kg	8.13	2.19	2	11/19/21 19:59	11/22/21 22:43	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.06	0.309	2	11/19/21 19:59	11/22/21 22:43	EPA 3050B	1,6010D	DL
Arsenic, Total	0.171	J	mg/kg	0.813	0.169	2	11/19/21 19:59	11/22/21 22:43	EPA 3050B	1,6010D	DL
Barium, Total	4.01		mg/kg	0.813	0.141	2	11/19/21 19:59	11/22/21 22:43	EPA 3050B	1,6010D	DL
Beryllium, Total	0.033	J	mg/kg	0.406	0.027	2	11/19/21 19:59	11/22/21 22:43	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.813	0.080	2	11/19/21 19:59	11/22/21 22:43	EPA 3050B	1,6010D	DL
Calcium, Total	285		mg/kg	8.13	2.84	2	11/19/21 19:59	11/22/21 22:43	EPA 3050B	1,6010D	DL
Chromium, Total	2.58		mg/kg	0.813	0.078	2	11/19/21 19:59	11/22/21 22:43	EPA 3050B	1,6010D	DL
Cobalt, Total	0.552	J	mg/kg	1.62	0.135	2	11/19/21 19:59	11/22/21 22:43	EPA 3050B	1,6010D	DL
Copper, Total	0.943		mg/kg	0.813	0.210	2	11/19/21 19:59	11/22/21 22:43	EPA 3050B	1,6010D	DL
Iron, Total	736		mg/kg	4.06	0.734	2	11/19/21 19:59	11/22/21 22:43	EPA 3050B	1,6010D	DL
Lead, Total	1.88	J	mg/kg	4.06	0.218	2	11/19/21 19:59	11/22/21 22:43	EPA 3050B	1,6010D	DL
Magnesium, Total	168		mg/kg	8.13	1.25	2	11/19/21 19:59	11/22/21 22:43	EPA 3050B	1,6010D	DL
Manganese, Total	9.99		mg/kg	0.813	0.129	2	11/19/21 19:59	11/22/21 22:43	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.076	0.050	1	11/19/21 20:30	11/20/21 17:08	EPA 7471B	1,7471B	NB
Nickel, Total	1.02	J	mg/kg	2.03	0.197	2	11/19/21 19:59	11/22/21 22:43	EPA 3050B	1,6010D	DL
Potassium, Total	80.6	J	mg/kg	203	11.7	2	11/19/21 19:59	11/22/21 22:43	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	1.62	0.210	2	11/19/21 19:59	11/22/21 22:43	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.813	0.230	2	11/19/21 19:59	11/22/21 22:43	EPA 3050B	1,6010D	DL
Sodium, Total	14.7	J	mg/kg	162	2.56	2	11/19/21 19:59	11/22/21 22:43	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.62	0.256	2	11/19/21 19:59	11/22/21 22:43	EPA 3050B	1,6010D	DL
Vanadium, Total	2.26		mg/kg	0.813	0.165	2	11/19/21 19:59	11/22/21 22:43	EPA 3050B	1,6010D	DL
Zinc, Total	23.7		mg/kg	4.06	0.238	2	11/19/21 19:59	11/22/21 22:43	EPA 3050B	1,6010D	DL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.6		mg/kg	0.84	0.84	1		11/22/21 22:43	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2163081
Project Number: 170599501
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-03
Client ID: DUP03_111621
Sample Location: BROOKLYN, NY
Date Collected: 11/16/21 00:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	448		mg/kg	9.68	2.61	2	11/19/21 19:59	11/22/21 14:34	EPA 3050B	1,6010D	SV
Antimony, Total	2.54	J	mg/kg	4.84	0.368	2	11/19/21 19:59	11/22/21 18:07	EPA 3050B	1,6010D	DL
Arsenic, Total	0.455	J	mg/kg	0.968	0.201	2	11/19/21 19:59	11/22/21 14:34	EPA 3050B	1,6010D	SV
Barium, Total	2.84		mg/kg	0.968	0.168	2	11/19/21 19:59	11/22/21 14:34	EPA 3050B	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.484	0.032	2	11/19/21 19:59	11/22/21 14:34	EPA 3050B	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.968	0.095	2	11/19/21 19:59	11/22/21 14:34	EPA 3050B	1,6010D	SV
Calcium, Total	216		mg/kg	9.68	3.39	2	11/19/21 19:59	11/22/21 14:34	EPA 3050B	1,6010D	SV
Chromium, Total	2.11		mg/kg	0.968	0.093	2	11/19/21 19:59	11/22/21 14:34	EPA 3050B	1,6010D	SV
Cobalt, Total	0.435	J	mg/kg	1.94	0.161	2	11/19/21 19:59	11/22/21 14:34	EPA 3050B	1,6010D	SV
Copper, Total	1.24		mg/kg	0.968	0.250	2	11/19/21 19:59	11/22/21 14:34	EPA 3050B	1,6010D	SV
Iron, Total	821		mg/kg	4.84	0.874	2	11/19/21 19:59	11/22/21 14:34	EPA 3050B	1,6010D	SV
Lead, Total	4.35	J	mg/kg	4.84	0.259	2	11/19/21 19:59	11/22/21 14:34	EPA 3050B	1,6010D	SV
Magnesium, Total	211		mg/kg	9.68	1.49	2	11/19/21 19:59	11/22/21 14:34	EPA 3050B	1,6010D	SV
Manganese, Total	8.05		mg/kg	0.968	0.154	2	11/19/21 19:59	11/22/21 14:34	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.087	0.057	1	11/19/21 20:30	11/20/21 17:28	EPA 7471B	1,7471B	NB
Nickel, Total	1.04	J	mg/kg	2.42	0.234	2	11/19/21 19:59	11/22/21 14:34	EPA 3050B	1,6010D	SV
Potassium, Total	102	J	mg/kg	242	13.9	2	11/19/21 19:59	11/22/21 14:34	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.94	0.250	2	11/19/21 19:59	11/22/21 14:34	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.968	0.274	2	11/19/21 19:59	11/22/21 14:34	EPA 3050B	1,6010D	SV
Sodium, Total	11.0	J	mg/kg	194	3.05	2	11/19/21 19:59	11/22/21 14:34	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.94	0.305	2	11/19/21 19:59	11/22/21 14:34	EPA 3050B	1,6010D	SV
Vanadium, Total	1.66		mg/kg	0.968	0.196	2	11/19/21 19:59	11/22/21 14:34	EPA 3050B	1,6010D	SV
Zinc, Total	41.4		mg/kg	4.84	0.284	2	11/19/21 19:59	11/22/21 14:34	EPA 3050B	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.1		mg/kg	0.98	0.98	1		11/22/21 14:34	NA	107,-	

Project Name: 1607 SURF AVENUE
Lab Number: L2163081
Project Number: 170599501
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-04
Client ID: DUP04_111621
Sample Location: BROOKLYN, NY
Date Collected: 11/16/21 00:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	398		mg/kg	10.4	2.81	2	11/19/21 19:59	11/22/21 17:58	EPA 3050B	1,6010D	DL
Antimony, Total	0.635	J	mg/kg	5.20	0.395	2	11/19/21 19:59	11/22/21 17:58	EPA 3050B	1,6010D	DL
Arsenic, Total	0.666	J	mg/kg	1.04	0.216	2	11/19/21 19:59	11/22/21 17:58	EPA 3050B	1,6010D	DL
Barium, Total	4.19		mg/kg	1.04	0.181	2	11/19/21 19:59	11/22/21 17:58	EPA 3050B	1,6010D	DL
Beryllium, Total	0.042	J	mg/kg	0.520	0.034	2	11/19/21 19:59	11/22/21 17:58	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	1.04	0.102	2	11/19/21 19:59	11/22/21 17:58	EPA 3050B	1,6010D	DL
Calcium, Total	303		mg/kg	10.4	3.64	2	11/19/21 19:59	11/22/21 17:58	EPA 3050B	1,6010D	DL
Chromium, Total	2.81		mg/kg	1.04	0.100	2	11/19/21 19:59	11/22/21 17:58	EPA 3050B	1,6010D	DL
Cobalt, Total	0.624	J	mg/kg	2.08	0.173	2	11/19/21 19:59	11/22/21 17:58	EPA 3050B	1,6010D	DL
Copper, Total	1.10		mg/kg	1.04	0.268	2	11/19/21 19:59	11/22/21 17:58	EPA 3050B	1,6010D	DL
Iron, Total	794		mg/kg	5.20	0.940	2	11/19/21 19:59	11/22/21 17:58	EPA 3050B	1,6010D	DL
Lead, Total	2.20	J	mg/kg	5.20	0.279	2	11/19/21 19:59	11/22/21 17:58	EPA 3050B	1,6010D	DL
Magnesium, Total	193		mg/kg	10.4	1.60	2	11/19/21 19:59	11/22/21 20:25	EPA 3050B	1,6010D	DL
Manganese, Total	11.3		mg/kg	1.04	0.165	2	11/19/21 19:59	11/22/21 17:58	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.105	0.068	1	11/19/21 20:30	11/20/21 17:31	EPA 7471B	1,7471B	NB
Nickel, Total	1.19	J	mg/kg	2.60	0.252	2	11/19/21 19:59	11/22/21 17:58	EPA 3050B	1,6010D	DL
Potassium, Total	73.4	J	mg/kg	260	15.0	2	11/19/21 19:59	11/22/21 17:58	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	2.08	0.268	2	11/19/21 19:59	11/22/21 17:58	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	1.04	0.294	2	11/19/21 19:59	11/22/21 17:58	EPA 3050B	1,6010D	DL
Sodium, Total	32.7	J	mg/kg	208	3.28	2	11/19/21 19:59	11/22/21 17:58	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	2.08	0.328	2	11/19/21 19:59	11/22/21 17:58	EPA 3050B	1,6010D	DL
Vanadium, Total	2.38		mg/kg	1.04	0.211	2	11/19/21 19:59	11/22/21 17:58	EPA 3050B	1,6010D	DL
Zinc, Total	27.0		mg/kg	5.20	0.305	2	11/19/21 19:59	11/22/21 17:58	EPA 3050B	1,6010D	DL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	2.8		mg/kg	1.1	1.1	1		11/22/21 17:58	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-05
Client ID: EP10_1
Sample Location: BROOKLYN, NY
Date Collected: 11/16/21 14:30
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	346		mg/kg	8.53	2.30	2	11/19/21 19:59	11/22/21 18:02	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.26	0.324	2	11/19/21 19:59	11/22/21 18:02	EPA 3050B	1,6010D	DL
Arsenic, Total	0.469	J	mg/kg	0.853	0.177	2	11/19/21 19:59	11/22/21 18:02	EPA 3050B	1,6010D	DL
Barium, Total	2.56		mg/kg	0.853	0.148	2	11/19/21 19:59	11/22/21 18:02	EPA 3050B	1,6010D	DL
Beryllium, Total	ND		mg/kg	0.426	0.028	2	11/19/21 19:59	11/22/21 18:02	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.853	0.084	2	11/19/21 19:59	11/22/21 18:02	EPA 3050B	1,6010D	DL
Calcium, Total	193		mg/kg	8.53	2.98	2	11/19/21 19:59	11/22/21 18:02	EPA 3050B	1,6010D	DL
Chromium, Total	1.94		mg/kg	0.853	0.082	2	11/19/21 19:59	11/22/21 18:02	EPA 3050B	1,6010D	DL
Cobalt, Total	0.324	J	mg/kg	1.70	0.142	2	11/19/21 19:59	11/22/21 18:02	EPA 3050B	1,6010D	DL
Copper, Total	0.358	J	mg/kg	0.853	0.220	2	11/19/21 19:59	11/22/21 18:02	EPA 3050B	1,6010D	DL
Iron, Total	686		mg/kg	4.26	0.770	2	11/19/21 19:59	11/22/21 18:02	EPA 3050B	1,6010D	DL
Lead, Total	1.18	J	mg/kg	4.26	0.228	2	11/19/21 19:59	11/22/21 18:02	EPA 3050B	1,6010D	DL
Magnesium, Total	148		mg/kg	8.53	1.31	2	11/19/21 19:59	11/22/21 20:30	EPA 3050B	1,6010D	DL
Manganese, Total	7.68		mg/kg	0.853	0.136	2	11/19/21 19:59	11/22/21 18:02	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.081	0.053	1	11/19/21 20:30	11/20/21 17:35	EPA 7471B	1,7471B	NB
Nickel, Total	0.716	J	mg/kg	2.13	0.206	2	11/19/21 19:59	11/22/21 18:02	EPA 3050B	1,6010D	DL
Potassium, Total	70.9	J	mg/kg	213	12.3	2	11/19/21 19:59	11/22/21 18:02	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	1.70	0.220	2	11/19/21 19:59	11/22/21 18:02	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.853	0.241	2	11/19/21 19:59	11/22/21 18:02	EPA 3050B	1,6010D	DL
Sodium, Total	16.3	J	mg/kg	170	2.69	2	11/19/21 19:59	11/22/21 18:02	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.70	0.269	2	11/19/21 19:59	11/22/21 18:02	EPA 3050B	1,6010D	DL
Vanadium, Total	1.48		mg/kg	0.853	0.173	2	11/19/21 19:59	11/22/21 18:02	EPA 3050B	1,6010D	DL
Zinc, Total	25.8		mg/kg	4.26	0.250	2	11/19/21 19:59	11/22/21 18:02	EPA 3050B	1,6010D	DL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1.9		mg/kg	0.89	0.89	1		11/22/21 18:02	NA	107,-	

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-06
Client ID: FB04_111621
Sample Location: BROOKLYN, NY
Date Collected: 11/16/21 14:45
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.032	1	11/19/21 12:06	11/22/21 13:10	EPA 3005A	1,6010D	SV
Antimony, Total	ND		mg/l	0.050	0.007	1	11/19/21 12:06	11/22/21 13:10	EPA 3005A	1,6010D	SV
Arsenic, Total	ND		mg/l	0.005	0.002	1	11/19/21 12:06	11/22/21 13:10	EPA 3005A	1,6010D	SV
Barium, Total	ND		mg/l	0.010	0.002	1	11/19/21 12:06	11/22/21 13:10	EPA 3005A	1,6010D	SV
Beryllium, Total	ND		mg/l	0.005	0.001	1	11/19/21 12:06	11/22/21 13:10	EPA 3005A	1,6010D	SV
Cadmium, Total	ND		mg/l	0.005	0.001	1	11/19/21 12:06	11/22/21 13:10	EPA 3005A	1,6010D	SV
Calcium, Total	0.079	J	mg/l	0.100	0.035	1	11/19/21 12:06	11/22/21 13:10	EPA 3005A	1,6010D	SV
Chromium, Total	ND		mg/l	0.010	0.002	1	11/19/21 12:06	11/22/21 13:10	EPA 3005A	1,6010D	SV
Cobalt, Total	ND		mg/l	0.020	0.002	1	11/19/21 12:06	11/22/21 13:10	EPA 3005A	1,6010D	SV
Copper, Total	ND		mg/l	0.010	0.002	1	11/19/21 12:06	11/22/21 13:10	EPA 3005A	1,6010D	SV
Iron, Total	0.035	J	mg/l	0.050	0.009	1	11/19/21 12:06	11/22/21 13:10	EPA 3005A	1,6010D	SV
Lead, Total	ND		mg/l	0.010	0.003	1	11/19/21 12:06	11/22/21 13:10	EPA 3005A	1,6010D	SV
Magnesium, Total	0.042	J	mg/l	0.100	0.015	1	11/19/21 12:06	11/22/21 13:10	EPA 3005A	1,6010D	SV
Manganese, Total	ND		mg/l	0.010	0.002	1	11/19/21 12:06	11/22/21 13:10	EPA 3005A	1,6010D	SV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/19/21 13:15	11/20/21 13:57	EPA 7470A	1,7470A	NB
Nickel, Total	ND		mg/l	0.025	0.002	1	11/19/21 12:06	11/22/21 13:10	EPA 3005A	1,6010D	SV
Potassium, Total	0.285	J	mg/l	2.50	0.237	1	11/19/21 12:06	11/22/21 13:10	EPA 3005A	1,6010D	SV
Selenium, Total	ND		mg/l	0.010	0.004	1	11/19/21 12:06	11/22/21 13:10	EPA 3005A	1,6010D	SV
Silver, Total	ND		mg/l	0.007	0.003	1	11/19/21 12:06	11/22/21 13:10	EPA 3005A	1,6010D	SV
Sodium, Total	0.310	J	mg/l	2.00	0.120	1	11/19/21 12:06	11/22/21 13:10	EPA 3005A	1,6010D	SV
Thallium, Total	ND		mg/l	0.020	0.003	1	11/19/21 12:06	11/22/21 13:10	EPA 3005A	1,6010D	SV
Vanadium, Total	ND		mg/l	0.010	0.002	1	11/19/21 12:06	11/22/21 13:10	EPA 3005A	1,6010D	SV
Zinc, Total	ND		mg/l	0.050	0.002	1	11/19/21 12:06	11/22/21 13:10	EPA 3005A	1,6010D	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		11/22/21 13:10	NA	107,-	

Project Name: 1607 SURF AVENUE **Lab Number:** L2163081

Project Number: 170599501 **Report Date:** 12/09/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 06 Batch: WG1573581-1										
Aluminum, Total	ND		mg/l	0.100	0.032	1	11/19/21 12:06	11/22/21 12:14	1,6010D	SV
Antimony, Total	ND		mg/l	0.050	0.007	1	11/19/21 12:06	11/22/21 12:14	1,6010D	SV
Arsenic, Total	ND		mg/l	0.005	0.002	1	11/19/21 12:06	11/22/21 12:14	1,6010D	SV
Barium, Total	ND		mg/l	0.010	0.002	1	11/19/21 12:06	11/22/21 12:14	1,6010D	SV
Beryllium, Total	ND		mg/l	0.005	0.001	1	11/19/21 12:06	11/22/21 12:14	1,6010D	SV
Cadmium, Total	ND		mg/l	0.005	0.001	1	11/19/21 12:06	11/22/21 12:14	1,6010D	SV
Calcium, Total	ND		mg/l	0.100	0.035	1	11/19/21 12:06	11/22/21 12:14	1,6010D	SV
Chromium, Total	ND		mg/l	0.010	0.002	1	11/19/21 12:06	11/22/21 12:14	1,6010D	SV
Cobalt, Total	ND		mg/l	0.020	0.002	1	11/19/21 12:06	11/22/21 12:14	1,6010D	SV
Copper, Total	ND		mg/l	0.010	0.002	1	11/19/21 12:06	11/22/21 12:14	1,6010D	SV
Iron, Total	0.035	J	mg/l	0.050	0.009	1	11/19/21 12:06	11/22/21 12:14	1,6010D	SV
Lead, Total	ND		mg/l	0.010	0.003	1	11/19/21 12:06	11/22/21 12:14	1,6010D	SV
Magnesium, Total	ND		mg/l	0.100	0.015	1	11/19/21 12:06	11/22/21 12:14	1,6010D	SV
Manganese, Total	ND		mg/l	0.010	0.002	1	11/19/21 12:06	11/22/21 12:14	1,6010D	SV
Nickel, Total	ND		mg/l	0.025	0.002	1	11/19/21 12:06	11/22/21 12:14	1,6010D	SV
Potassium, Total	ND		mg/l	2.50	0.237	1	11/19/21 12:06	11/22/21 12:14	1,6010D	SV
Selenium, Total	ND		mg/l	0.010	0.004	1	11/19/21 12:06	11/22/21 12:14	1,6010D	SV
Silver, Total	ND		mg/l	0.007	0.003	1	11/19/21 12:06	11/22/21 12:14	1,6010D	SV
Sodium, Total	ND		mg/l	2.00	0.120	1	11/19/21 12:06	11/22/21 12:14	1,6010D	SV
Thallium, Total	ND		mg/l	0.020	0.003	1	11/19/21 12:06	11/22/21 12:14	1,6010D	SV
Vanadium, Total	ND		mg/l	0.010	0.002	1	11/19/21 12:06	11/22/21 12:14	1,6010D	SV
Zinc, Total	ND		mg/l	0.050	0.002	1	11/19/21 12:06	11/22/21 12:14	1,6010D	SV

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 06 Batch: WG1573583-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/19/21 13:15	11/20/21 13:25	1,7470A	NB

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1573652-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	11/19/21 19:59	11/22/21 17:49	1,6010D	DL
Antimony, Total	ND		mg/kg	2.00	0.152	1	11/19/21 19:59	11/22/21 17:49	1,6010D	DL
Arsenic, Total	0.104	J	mg/kg	0.400	0.083	1	11/19/21 19:59	11/22/21 17:49	1,6010D	DL
Barium, Total	ND		mg/kg	0.400	0.070	1	11/19/21 19:59	11/22/21 17:49	1,6010D	DL
Beryllium, Total	ND		mg/kg	0.200	0.013	1	11/19/21 19:59	11/22/21 17:49	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.400	0.039	1	11/19/21 19:59	11/22/21 17:49	1,6010D	DL
Calcium, Total	ND		mg/kg	4.00	1.40	1	11/19/21 19:59	11/22/21 17:49	1,6010D	DL
Chromium, Total	ND		mg/kg	0.400	0.038	1	11/19/21 19:59	11/22/21 17:49	1,6010D	DL
Cobalt, Total	ND		mg/kg	0.800	0.066	1	11/19/21 19:59	11/22/21 17:49	1,6010D	DL
Copper, Total	ND		mg/kg	0.400	0.103	1	11/19/21 19:59	11/22/21 17:49	1,6010D	DL
Iron, Total	ND		mg/kg	2.00	0.361	1	11/19/21 19:59	11/22/21 17:49	1,6010D	DL
Lead, Total	ND		mg/kg	2.00	0.107	1	11/19/21 19:59	11/22/21 17:49	1,6010D	DL
Magnesium, Total	ND		mg/kg	4.00	0.616	1	11/19/21 19:59	11/22/21 20:16	1,6010D	DL
Manganese, Total	ND		mg/kg	0.400	0.064	1	11/19/21 19:59	11/22/21 17:49	1,6010D	DL
Nickel, Total	ND		mg/kg	1.00	0.097	1	11/19/21 19:59	11/22/21 17:49	1,6010D	DL
Potassium, Total	ND		mg/kg	100	5.76	1	11/19/21 19:59	11/22/21 17:49	1,6010D	DL
Selenium, Total	ND		mg/kg	0.800	0.103	1	11/19/21 19:59	11/22/21 17:49	1,6010D	DL
Silver, Total	ND		mg/kg	0.400	0.113	1	11/19/21 19:59	11/22/21 17:49	1,6010D	DL
Sodium, Total	ND		mg/kg	80.0	1.26	1	11/19/21 19:59	11/22/21 17:49	1,6010D	DL
Thallium, Total	ND		mg/kg	0.800	0.126	1	11/19/21 19:59	11/22/21 17:49	1,6010D	DL
Vanadium, Total	ND		mg/kg	0.400	0.081	1	11/19/21 19:59	11/22/21 17:49	1,6010D	DL
Zinc, Total	ND		mg/kg	2.00	0.117	1	11/19/21 19:59	11/22/21 17:49	1,6010D	DL

Prep Information

Digestion Method: EPA 3050B

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1573655-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	11/19/21 20:30	11/20/21 16:48	1,7471B	NB

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 Batch: WG1573581-2								
Aluminum, Total	104		-		80-120	-		
Antimony, Total	97		-		80-120	-		
Arsenic, Total	108		-		80-120	-		
Barium, Total	102		-		80-120	-		
Beryllium, Total	104		-		80-120	-		
Cadmium, Total	103		-		80-120	-		
Calcium, Total	101		-		80-120	-		
Chromium, Total	100		-		80-120	-		
Cobalt, Total	96		-		80-120	-		
Copper, Total	100		-		80-120	-		
Iron, Total	99		-		80-120	-		
Lead, Total	99		-		80-120	-		
Magnesium, Total	103		-		80-120	-		
Manganese, Total	97		-		80-120	-		
Nickel, Total	99		-		80-120	-		
Potassium, Total	102		-		80-120	-		
Selenium, Total	104		-		80-120	-		
Silver, Total	102		-		80-120	-		
Sodium, Total	103		-		80-120	-		
Thallium, Total	106		-		80-120	-		
Vanadium, Total	100		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 Batch: WG1573581-2					
Zinc, Total	101	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 06 Batch: WG1573583-2					
Mercury, Total	104	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1573652-2 SRM Lot Number: D109-540					
Aluminum, Total	62	-	50-150	-	
Antimony, Total	117	-	19-250	-	
Arsenic, Total	97	-	70-130	-	
Barium, Total	84	-	75-125	-	
Beryllium, Total	86	-	75-125	-	
Cadmium, Total	88	-	75-125	-	
Calcium, Total	86	-	73-128	-	
Chromium, Total	86	-	70-130	-	
Cobalt, Total	88	-	75-125	-	
Copper, Total	86	-	75-125	-	
Iron, Total	80	-	35-165	-	
Lead, Total	93	-	72-128	-	
Magnesium, Total	74	-	62-138	-	
Manganese, Total	85	-	74-126	-	
Nickel, Total	89	-	70-130	-	
Potassium, Total	74	-	59-141	-	
Selenium, Total	96	-	68-132	-	
Silver, Total	92	-	68-131	-	
Sodium, Total	92	-	35-165	-	
Thallium, Total	88	-	68-131	-	
Vanadium, Total	85	-	59-141	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1573652-2 SRM Lot Number: D109-540					
Zinc, Total	94	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1573655-2 SRM Lot Number: D109-540					
Mercury, Total	85	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1573581-3 QC Sample: L2163488-09 Client ID: MS Sample												
Aluminum, Total	ND	2	2.10	105		-	-		75-125	-		20
Antimony, Total	ND	0.5	0.483	97		-	-		75-125	-		20
Arsenic, Total	ND	0.12	0.134	112		-	-		75-125	-		20
Barium, Total	ND	2	2.06	103		-	-		75-125	-		20
Beryllium, Total	ND	0.05	0.053	106		-	-		75-125	-		20
Cadmium, Total	ND	0.053	0.055	104		-	-		75-125	-		20
Calcium, Total	0.097J	10	10.3	103		-	-		75-125	-		20
Chromium, Total	ND	0.2	0.202	101		-	-		75-125	-		20
Cobalt, Total	ND	0.5	0.488	98		-	-		75-125	-		20
Copper, Total	ND	0.25	0.254	102		-	-		75-125	-		20
Iron, Total	0.011J	1	0.998	100		-	-		75-125	-		20
Lead, Total	ND	0.53	0.533	100		-	-		75-125	-		20
Magnesium, Total	0.036J	10	10.6	106		-	-		75-125	-		20
Manganese, Total	ND	0.5	0.494	99		-	-		75-125	-		20
Nickel, Total	ND	0.5	0.499	100		-	-		75-125	-		20
Potassium, Total	0.312J	10	10.6	106		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.129	108		-	-		75-125	-		20
Silver, Total	ND	0.05	0.052	104		-	-		75-125	-		20
Sodium, Total	0.458J	10	10.6	106		-	-		75-125	-		20
Thallium, Total	ND	0.12	0.127	106		-	-		75-125	-		20
Vanadium, Total	ND	0.5	0.508	102		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1573581-3 QC Sample: L2163488-09 Client ID: MS Sample									
Zinc, Total	ND	0.5	0.512	102	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1573583-3 QC Sample: L2160421-03 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00481	96	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1573652-3 WG1573652-4 QC Sample: L2163081-01 Client ID: EP03_1											
Aluminum, Total	440	172	713	**158**	Q	745	**174**	Q	75-125	4	20
Antimony, Total	1.90J	43.1	49.4	114		49.7	113		75-125	1	20
Arsenic, Total	0.602J	10.3	11.5	111		11.6	110		75-125	1	20
Barium, Total	2.68	172	187	107		185	104		75-125	1	20
Beryllium, Total	0.035J	4.31	4.64	108		4.58	104		75-125	1	20
Cadmium, Total	ND	4.57	4.90	107		4.90	105		75-125	0	20
Calcium, Total	216	862	1140	107		1160	108		75-125	2	20
Chromium, Total	2.43	17.2	20.4	104		20.4	102		75-125	0	20
Cobalt, Total	0.380J	43.1	43.3	100		43.2	98		75-125	0	20
Copper, Total	1.13	21.6	23.6	104		23.5	102		75-125	0	20
Iron, Total	802	86.2	918	**134**	Q	1020	**248**	Q	75-125	11	20
Lead, Total	6.10	45.7	53.2	103		52.5	100		75-125	1	20
Magnesium, Total	184	862	1080	104		1130	108		75-125	5	20
Manganese, Total	8.35	43.1	53.3	104		53.6	103		75-125	1	20
Nickel, Total	1.09J	43.1	45.4	105		45.5	104		75-125	0	20
Potassium, Total	91.2J	862	999	116		1010	115		75-125	1	20
Selenium, Total	ND	10.3	11.0	106		11.0	104		75-125	0	20
Silver, Total	ND	25.9	27.6	107		27.0	102		75-125	2	20
Sodium, Total	12.5J	862	949	110		936	107		75-125	1	20
Thallium, Total	ND	10.3	10.8	104		11.0	104		75-125	2	20
Vanadium, Total	1.69	43.1	48.6	109		48.2	106		75-125	1	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1573652-3 WG1573652-4 QC Sample: L2163081-01 Client ID: EP03_1									
Zinc, Total	34.6	43.1	81.7	109	84.5	114	75-125	3	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1573652-7 WG1573652-8 QC Sample: L2163081-02 Client ID: EP11_1											
Aluminum, Total	386	162	657	**168**	Q	663	**168**	Q	75-125	1	20
Antimony, Total	ND	40.4	39.8	98		41.5	100		75-125	4	20
Arsenic, Total	0.171J	9.69	9.43	97		9.69	98		75-125	3	20
Barium, Total	4.01	162	158	95		166	98		75-125	5	20
Beryllium, Total	0.033J	4.04	3.89	96		4.12	100		75-125	6	20
Cadmium, Total	ND	4.28	4.42	103		4.55	104		75-125	3	20
Calcium, Total	285	808	1110	102		1150	105		75-125	4	20
Chromium, Total	2.58	16.2	18.6	99		19.1	100		75-125	3	20
Cobalt, Total	0.552J	40.4	39.5	98		40.8	99		75-125	3	20
Copper, Total	0.943	20.2	20.4	96		21.3	98		75-125	4	20
Iron, Total	736	80.8	919	**226**	Q	908	**208**	Q	75-125	1	20
Lead, Total	1.88J	42.8	44.7	104		45.5	104		75-125	2	20
Magnesium, Total	168	808	1010	104		1050	107		75-125	4	20
Manganese, Total	9.99	40.4	48.8	96		51.0	99		75-125	4	20
Nickel, Total	1.02J	40.4	41.0	102		42.1	102		75-125	3	20
Potassium, Total	80.6J	808	886	110		924	112		75-125	4	20
Selenium, Total	ND	9.69	8.79	91		9.18	92		75-125	4	20
Silver, Total	ND	24.2	24.0	99		25.0	101		75-125	4	20
Sodium, Total	14.7J	808	821	102		867	105		75-125	5	20
Thallium, Total	ND	9.69	9.68	100		10.2	103		75-125	5	20
Vanadium, Total	2.26	40.4	41.7	98		43.2	99		75-125	4	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1573652-7 WG1573652-8 QC Sample: L2163081-02 Client ID: EP11_1									
Zinc, Total	23.7	40.4	65.3	103	65.0	100	75-125	0	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1573655-3 WG1573655-4 QC Sample: L2163081-01 Client ID: EP03_1									
Mercury, Total	ND	0.162	0.162	100	0.180	98	80-120	11	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1573655-5 WG1573655-6 QC Sample: L2163081-02 Client ID: EP11_1									
Mercury, Total	ND	0.146	0.140	96	0.143	94	80-120	2	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1573581-4 QC Sample: L2163488-09 Client ID: DUP Sample						
Aluminum, Total	ND	ND	mg/l	NC		20
Antimony, Total	ND	0.008J	mg/l	NC		20
Arsenic, Total	ND	ND	mg/l	NC		20
Barium, Total	ND	ND	mg/l	NC		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Calcium, Total	0.097J	0.073J	mg/l	NC		20
Chromium, Total	ND	ND	mg/l	NC		20
Cobalt, Total	ND	ND	mg/l	NC		20
Copper, Total	ND	ND	mg/l	NC		20
Iron, Total	0.011J	ND	mg/l	NC		20
Lead, Total	ND	ND	mg/l	NC		20
Magnesium, Total	0.036J	ND	mg/l	NC		20
Manganese, Total	ND	ND	mg/l	NC		20
Nickel, Total	ND	ND	mg/l	NC		20
Potassium, Total	0.312J	ND	mg/l	NC		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Sodium, Total	0.458J	0.182J	mg/l	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1573581-4 QC Sample: L2163488-09 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/l	NC	20
Vanadium, Total	ND	ND	mg/l	NC	20
Zinc, Total	ND	ND	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1573583-4 QC Sample: L2160421-03 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2163081
Report Date: 12/09/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1573652-6 QC Sample: L2163081-01 Client ID: EP03_1						
Aluminum, Total	440	424	mg/kg	4		20
Iron, Total	802	779	mg/kg	3		20

INORGANICS
&
MISCELLANEOUS

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-01
Client ID: EP03_1
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 13:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.2		%	0.100	NA	1	-	11/17/21 12:41	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	11/18/21 09:30	11/18/21 13:20	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.897	0.179	1	11/21/21 12:45	11/21/21 16:20	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-02
Client ID: EP11_1
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 11/16/21 13:20
Date Received: 11/16/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.1		%	0.100	NA	1	-	11/17/21 12:41	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.97	0.20	1	11/18/21 09:30	11/18/21 13:31	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.841	0.168	1	11/21/21 12:45	11/21/21 16:20	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-03
Client ID: DUP03_111621
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 00:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.5		%	0.100	NA	1	-	11/17/21 12:41	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	11/18/21 09:30	11/18/21 13:25	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.982	0.196	1	11/21/21 12:45	11/21/21 16:20	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-04
Client ID: DUP04_111621
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 00:00
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.5		%	0.100	NA	1	-	11/17/21 12:41	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.3	0.27	1	11/18/21 09:30	11/18/21 13:26	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	1.07	0.215	1	11/21/21 12:45	11/21/21 16:20	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-05
Client ID: EP10_1
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 14:30
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.5		%	0.100	NA	1	-	11/17/21 12:41	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	11/18/21 09:30	11/18/21 13:34	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.894	0.179	1	11/21/21 12:45	11/21/21 16:20	1,7196A	JT

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

SAMPLE RESULTS

Lab ID: L2163081-06
Client ID: FB04_111621
Sample Location: BROOKLYN, NY

Date Collected: 11/16/21 14:45
Date Received: 11/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	11/18/21 09:30	11/18/21 16:56	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	11/17/21 10:07	11/17/21 10:22	1,7196A	KP

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2163081
Report Date: 12/09/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 06 Batch: WG1572707-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	11/17/21 10:07	11/17/21 10:21	1,7196A	KP
General Chemistry - Westborough Lab for sample(s): 06 Batch: WG1572871-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	11/18/21 09:30	11/18/21 16:31	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 01,03-04 Batch: WG1572887-1										
Cyanide, Total	ND		mg/kg	0.93	0.20	1	11/18/21 09:30	11/18/21 13:13	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 02,05 Batch: WG1573044-1										
Cyanide, Total	ND		mg/kg	0.93	0.20	1	11/18/21 09:30	11/18/21 13:13	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1574211-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	11/21/21 12:45	11/21/21 16:20	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 02-05 Batch: WG1574212-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	11/21/21 12:45	11/21/21 16:20	1,7196A	JT

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2163081

Report Date: 12/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG1572707-2								
Chromium, Hexavalent	107		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG1572871-2 WG1572871-3								
Cyanide, Total	106		101		85-115	5		20
General Chemistry - Westborough Lab Associated sample(s): 01,03-04 Batch: WG1572887-2 WG1572887-3								
Cyanide, Total	**49**	Q	92		80-120	**52**	Q	35
General Chemistry - Westborough Lab Associated sample(s): 02,05 Batch: WG1573044-2 WG1573044-3								
Cyanide, Total	**49**	Q	92		80-120	**52**	Q	35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1574211-2								
Chromium, Hexavalent	85		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-05 Batch: WG1574212-2								
Chromium, Hexavalent	85		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06 QC Batch ID: WG1572707-4 QC Sample: L2163081-06 Client ID: FB04_111621												
Chromium, Hexavalent	ND	0.1	0.106	106		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 06 QC Batch ID: WG1572871-4 WG1572871-5 QC Sample: L2162726-21 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.224	112		0.226	113		80-120	1		20
General Chemistry - Westborough Lab Associated sample(s): 01,03-04 QC Batch ID: WG1572887-6 WG1572887-7 QC Sample: L2163081-01 Client ID: EP03_1												
Cyanide, Total	ND	11	12	110		11	100		75-125	9		35
General Chemistry - Westborough Lab Associated sample(s): 02,05 QC Batch ID: WG1573044-4 WG1573044-5 QC Sample: L2163081-02 Client ID: EP11_1												
Cyanide, Total	ND	10	11	110		8.1	81		75-125	30		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1574211-4 WG1574211-5 QC Sample: L2163081-01 Client ID: EP03_1												
Chromium, Hexavalent	ND	1110	1100	99		1050	100		75-125	5		20
General Chemistry - Westborough Lab Associated sample(s): 02-05 QC Batch ID: WG1574212-4 WG1574212-5 QC Sample: L2163081-02 Client ID: EP11_1												
Chromium, Hexavalent	ND	1130	1080	95		1080	101		75-125	0		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1572514-1 QC Sample: L2163081-01 Client ID: EP03_1						
Solids, Total	89.2	89.3	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 06 QC Batch ID: WG1572707-3 QC Sample: L2163081-06 Client ID: FB04_111621						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1574211-8 QC Sample: L2163081-01 Client ID: EP03_1						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02-05 QC Batch ID: WG1574212-8 QC Sample: L2163081-02 Client ID: EP11_1						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2163081-01A	Vial MeOH preserved	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2163081-01A1	Vial MeOH preserved	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2163081-01A2	Vial MeOH preserved	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2163081-01B	Vial water preserved	B	NA		2.6	Y	Absent	17-NOV-21 09:59	NYTCL-8260HLW(14)
L2163081-01B1	Vial water preserved	B	NA		2.6	Y	Absent	17-NOV-21 09:59	NYTCL-8260HLW(14)
L2163081-01B2	Vial water preserved	B	NA		2.6	Y	Absent	17-NOV-21 09:59	NYTCL-8260HLW(14)
L2163081-01C	Vial water preserved	B	NA		2.6	Y	Absent	17-NOV-21 09:59	NYTCL-8260HLW(14)
L2163081-01C1	Vial water preserved	B	NA		2.6	Y	Absent	17-NOV-21 09:59	NYTCL-8260HLW(14)
L2163081-01C2	Vial water preserved	B	NA		2.6	Y	Absent	17-NOV-21 09:59	NYTCL-8260HLW(14)
L2163081-01D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2163081-01D1	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L2163081-01D2	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2163081-01D3	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L2163081-01D4	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2163081-01D5	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L2163081-01E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),CU-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),CA-TI(180),NA-TI(180),K-TI(180),CD-TI(180)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2163081-01E1	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),CU-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),CA-TI(180),NA-TI(180),K-TI(180),CD-TI(180)
L2163081-01E2	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),CU-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),CA-TI(180),NA-TI(180),K-TI(180),CD-TI(180)
L2163081-01F	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2163081-01F1	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2163081-01F2	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2163081-01G	Plastic 8oz unpreserved	A	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2163081-01G1	Plastic 8oz unpreserved	A	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2163081-01G2	Plastic 8oz unpreserved	A	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2163081-01H	Glass 500ml/16oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2163081-01H1	Glass 500ml/16oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2163081-01H2	Glass 500ml/16oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2163081-02A	Vial MeOH preserved	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2163081-02A1	Vial MeOH preserved	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2163081-02A2	Vial MeOH preserved	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2163081-02B	Vial water preserved	B	NA		2.6	Y	Absent	17-NOV-21 09:59	NYTCL-8260HLW(14)
L2163081-02B1	Vial water preserved	B	NA		2.6	Y	Absent	17-NOV-21 09:59	NYTCL-8260HLW(14)
L2163081-02B2	Vial water preserved	B	NA		2.6	Y	Absent	17-NOV-21 09:59	NYTCL-8260HLW(14)
L2163081-02C	Vial water preserved	B	NA		2.6	Y	Absent	17-NOV-21 09:59	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2163081-02C1	Vial water preserved	B	NA		2.6	Y	Absent	17-NOV-21 09:59	NYTCL-8260HLW(14)
L2163081-02C2	Vial water preserved	B	NA		2.6	Y	Absent	17-NOV-21 09:59	NYTCL-8260HLW(14)
L2163081-02D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2163081-02D1	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L2163081-02D2	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2163081-02D3	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L2163081-02D4	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2163081-02D5	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L2163081-02E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),NA-TI(180),K-TI(180),CA-TI(180),CD-TI(180)
L2163081-02E1	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),NA-TI(180),K-TI(180),CA-TI(180),CD-TI(180)
L2163081-02E2	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),NA-TI(180),K-TI(180),CA-TI(180),CD-TI(180)
L2163081-02F	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2163081-02F1	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2163081-02F2	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2163081-02G	Plastic 8oz unpreserved	A	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2163081-02G1	Plastic 8oz unpreserved	A	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2163081-02G2	Plastic 8oz unpreserved	A	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2163081-02H	Glass 500ml/16oz unpreserved	B	NA		2.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2163081-02H1	Glass 500ml/16oz unpreserved	B	NA		2.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2163081-02H2	Glass 500ml/16oz unpreserved	B	NA		2.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2163081-03A	Vial MeOH preserved	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2163081-03B	Vial water preserved	B	NA		2.6	Y	Absent	17-NOV-21 09:59	NYTCL-8260HLW(14)
L2163081-03C	Vial water preserved	B	NA		2.6	Y	Absent	17-NOV-21 09:59	NYTCL-8260HLW(14)
L2163081-03D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2163081-03D1	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L2163081-03E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2163081-03F	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2163081-03G	Plastic 8oz unpreserved	A	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2163081-03H	Glass 500ml/16oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2163081-04A	Vial MeOH preserved	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2163081-04B	Vial water preserved	B	NA		2.6	Y	Absent	17-NOV-21 09:59	NYTCL-8260HLW(14)
L2163081-04C	Vial water preserved	B	NA		2.6	Y	Absent	17-NOV-21 09:59	NYTCL-8260HLW(14)
L2163081-04D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2163081-04D1	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L2163081-04E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2163081-04F	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2163081-04G	Plastic 8oz unpreserved	A	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2163081-04H	Glass 500ml/16oz unpreserved	B	NA		2.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2163081-05A	Vial MeOH preserved	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2163081-05B	Vial water preserved	B	NA		2.6	Y	Absent	17-NOV-21 09:59	NYTCL-8260HLW(14)
L2163081-05C	Vial water preserved	B	NA		2.6	Y	Absent	17-NOV-21 09:59	NYTCL-8260HLW(14)
L2163081-05D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2163081-05D1	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L2163081-05E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2163081-05F	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2163081-05G	Plastic 8oz unpreserved	A	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2163081-05H	Glass 500ml/16oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2163081-06A	Vial HCl preserved	C	NA		3.2	Y	Absent		NYTCL-8260(14)
L2163081-06B	Vial HCl preserved	C	NA		3.2	Y	Absent		NYTCL-8260(14)
L2163081-06C	Vial HCl preserved	C	NA		3.2	Y	Absent		NYTCL-8260(14)
L2163081-06D	Plastic 250ml unpreserved	C	NA		3.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2163081-06E	Plastic 250ml HNO3 preserved	C	<2	<2	3.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),HG-T(28),FE-TI(180),NA-TI(180),CA-TI(180),K-TI(180),CD-TI(180)
L2163081-06F	Plastic 250ml NaOH preserved	C	>12	>12	3.2	Y	Absent		TCN-9010(14)
L2163081-06G	Plastic 500ml unpreserved	C	7	7	3.2	Y	Absent		HEXCR-7196(1)
L2163081-06H	Amber 120ml unpreserved	C	7	7	3.2	Y	Absent		NYTCL-8082-LVI(365)
L2163081-06I	Amber 120ml unpreserved	C	7	7	3.2	Y	Absent		NYTCL-8082-LVI(365)
L2163081-06J	Amber 120ml unpreserved	C	7	7	3.2	Y	Absent		NYTCL-8081(7)
L2163081-06K	Amber 120ml unpreserved	C	7	7	3.2	Y	Absent		NYTCL-8081(7)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2163081
Report Date: 12/09/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2163081-06L	Amber 250ml unpreserved	C	7	7	3.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2163081-06M	Amber 250ml unpreserved	C	7	7	3.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2163081-06N	Amber 250ml unpreserved	C	7	7	3.2	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2163081-06O	Amber 250ml unpreserved	C	7	7	3.2	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2163081-06P	Amber 1000ml unpreserved	C	7	7	3.2	Y	Absent		HERB-APA(7)
L2163081-06Q	Amber 1000ml unpreserved	C	7	7	3.2	Y	Absent		HERB-APA(7)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

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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

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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.

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'.

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.

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.)

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 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.

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Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

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Project Number:	170599501	**Report Date:**	12/09/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

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, SM4500Cl-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, **LACHAT 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

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

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 1

Date Rec'd in Lab: 11/17/21

ALPHA Job #: L2163081

Client Information
Client: LANGAN
Address: 360 W 31st Street 8th Floor, NYC, NY
Phone:
Fax:
Email: KSemon@Langan.com

Project Information
Project Name: 1607 Surf Avenue
Project Location: Brooklyn, NY
Project #: 170599501
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date: All analytes to be submitted on a 5-day TAT including PFAS
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ 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:
CC: Lesmail@Langan.com; Datamanagement@Langan.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs, SVOCs	TCL Pesticides	TAL Metals	TCN	Hex/Tchromium	PFAS	1,4-dioxane	Herbs, PCBs	Sample Specific Comments	Total Bottle
63081-01	EP03_1	11/16/21	1300	S	AR	X	X	X	X	X	X	X	X	*Run as MS/MSD	
-02	EP11_1	11/16/21	1320	S	AR	X	X	X	X	X	X	X	X	*Run as MS/MSD	
-03	DUP03_111621	11/16/21		S	AR	X	X	X	X	X	X	X	X		
-04	DUP04_111621	11/16/21		S	AR	X	X	X	X	X	X	X	X		
-05	EP10_1	11/16/21	1430	S	AR	X	X	X	X	X	X	X	X		
-06	FB04_111621	11/16/21	1445	AQ	AR	X	X	X	X	X	X	X	X		

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; 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								
	Preservative								

Relinquished By:	Date/Time	Received By:	Date/Time
Ali Rezai (Langan)	11/16/21 1624		
NYK	11/16 1944		11/16/21 20:32
	11/17/21		11/17/21 0830

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2211293
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Lamees Esmail
Phone:	(212) 479-5717
Project Name:	1607 SURF AVE.
Project Number:	170599501
Report Date:	03/09/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2211293
Report Date: 03/09/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2211293-01	MW-4_030322	WATER	BROOKLYN, NY	03/03/22 13:15	03/03/22

Project Name:	1607 SURF AVE.	**Lab Number:**	L2211293
Project Number:	170599501	**Report Date:**	03/09/22

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:	1607 SURF AVE.	**Lab Number:**	L2211293
Project Number:	170599501	**Report Date:**	03/09/22

Case Narrative (continued)

Report Revision

March 09, 2022: The Client ID was amended on L2211293-01.

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: Caitlin Walukevich

Title: Technical Director/Representative Date: 03/09/22

ORGANICS

VOLATILES

Project Name: 1607 SURF AVE.
Lab Number: L2211293
Project Number: 170599501
Report Date: 03/09/22

SAMPLE RESULTS

Lab ID: L2211293-01
Client ID: MW-4_030322
Sample Location: BROOKLYN, NY

Date Collected: 03/03/22 13:15
Date Received: 03/03/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/07/22 13:16
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	4.1		ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	0.53		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	0.90	J	ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	114		70-130

Project Name: 1607 SURF AVE. **Lab Number:** L2211293

Project Number: 170599501 **Report Date:** 03/09/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/07/22 10:57
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1613008-5					
Methylene chloride	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
Tetrachloroethene	ND		ug/l	0.50	0.18
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Trichloroethene	ND		ug/l	0.50	0.18
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	114		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE.

Project Number: 170599501

Lab Number: L2211293

Report Date: 03/09/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1613008-3 WG1613008-4								
Methylene chloride	100		110		70-130	10		20
Carbon tetrachloride	100		110		63-132	10		20
Tetrachloroethene	100		110		70-130	10		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Vinyl chloride	120		110		55-140	9		20
1,1-Dichloroethene	110		110		61-145	0		20
Trichloroethene	100		110		70-130	10		20
cis-1,2-Dichloroethene	100		100		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		103		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	95		99		70-130
Dibromofluoromethane	104		104		70-130

Project Name: 1607 SURF AVE.
Project Number: 170599501

Lab Number: L2211293
Report Date: 03/09/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2211293-01A	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2211293-01B	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2211293-01C	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	1607 SURF AVE.	**Lab Number:**	L2211293
Project Number:	170599501	**Report Date:**	03/09/22

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:	1607 SURF AVE.	**Lab Number:**	L2211293
Project Number:	170599501	**Report Date:**	03/09/22

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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVE.	**Lab Number:**	L2211293
Project Number:	170599501	**Report Date:**	03/09/22

Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVE.	**Lab Number:**	L2211293
Project Number:	170599501	**Report Date:**	03/09/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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, SM4500Cl-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, **LACHAT 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

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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 1

Date Rec'd in Lab: 3/3/22

ALPHA Job #: L2211293

Client Information

Client: Langan Engineering
Address: 360 W 31st St
New York, NY 10001
Phone: 212-479-5400
Fax: 212-479-5444
Email: lesmail@langan.com

Project Information

Project Name: 1607 ~~Surfside~~ Surf Ave
Project Location: Brooklyn NY
Project # 170599501
(Use Project name as Project #) ☐
Project Manager: Lamees Esmail
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☒ Same as Client Info
PO #

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:
Only run CVOCs specified email from Lamees Esmail
cc: kseman@langan.com, idatamanagement@langan.com

Please specify Metals or TAL.

ANALYSIS

Only run CVOCs specified in email from Lamees Esmail

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments
11293-01	TMW-4-030322	3/3/22	1315	GW	YMD	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	1500 3/3/22	KS 2300 SWain	3/3/22 1500
	3/3/22 1751	AVO Courier	

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Paul Mazzella 3/3/22 2325 Paul Mazzella 3/3/22 1845

ANALYTICAL REPORT

Lab Number:	L2211508
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Lamees Esmail
Phone:	(212) 479-5717
Project Name:	1607 SURF AVENUE
Project Number:	170599501
Report Date:	03/09/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2211508
Report Date: 03/09/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2211508-01	MW-1_030422	WATER	BROOKLYN, NY	03/04/22 11:43	03/04/22
L2211508-02	MW-2_030422	WATER	BROOKLYN, NY	03/04/22 13:15	03/04/22
L2211508-03	MW-3_030422	WATER	BROOKLYN, NY	03/04/22 09:55	03/04/22
L2211508-04	DUP01_030422	WATER	BROOKLYN, NY	03/04/22 00:00	03/04/22
L2211508-05	FB01_030422	WATER	BROOKLYN, NY	03/04/22 14:05	03/04/22
L2211508-06	TB01_030422	WATER	BROOKLYN, NY	03/04/22 00:00	03/04/22

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2211508
Project Number:	170599501	**Report Date:**	03/09/22

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:	1607 SURF AVENUE	**Lab Number:**	L2211508
Project Number:	170599501	**Report Date:**	03/09/22

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.

Sample Receipt

L2211508-01, -02 and -03: The Client IDs were specified by the client.

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: Caitlin Walukevich

Title: Technical Director/Representative Date: 03/09/22

ORGANICS

VOLATILES

Project Name: 1607 SURF AVENUE
Lab Number: L2211508
Project Number: 170599501
Report Date: 03/09/22

SAMPLE RESULTS

Lab ID: L2211508-01
Client ID: MW-1_030422
Sample Location: BROOKLYN, NY

Date Collected: 03/04/22 11:43
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/08/22 01:49
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	1.2		ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	0.44	J	ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	111		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2211508
Report Date: 03/09/22

SAMPLE RESULTS

Lab ID: L2211508-02
Client ID: MW-2_030422
Sample Location: BROOKLYN, NY

Date Collected: 03/04/22 13:15
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/08/22 02:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	1.2		ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	ND		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	114		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2211508
Report Date: 03/09/22

SAMPLE RESULTS

Lab ID: L2211508-03
Client ID: MW-3_030422
Sample Location: BROOKLYN, NY

Date Collected: 03/04/22 09:55
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/08/22 02:35
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	0.46	J	ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	ND		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	116		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2211508
Report Date: 03/09/22

SAMPLE RESULTS

Lab ID: L2211508-04
Client ID: DUP01_030422
Sample Location: BROOKLYN, NY

Date Collected: 03/04/22 00:00
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/08/22 02:58
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	0.42	J	ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	ND		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	116		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2211508
Report Date: 03/09/22

SAMPLE RESULTS

Lab ID: L2211508-05
Client ID: FB01_030422
Sample Location: BROOKLYN, NY

Date Collected: 03/04/22 14:05
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/07/22 19:57
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	ND		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	112		70-130

Project Name: 1607 SURF AVENUE
Lab Number: L2211508
Project Number: 170599501
Report Date: 03/09/22

SAMPLE RESULTS

Lab ID: L2211508-06
Client ID: TB01_030422
Sample Location: BROOKLYN, NY
Date Collected: 03/04/22 00:00
Date Received: 03/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/07/22 20:21
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	ND		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	111		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2211508
Report Date: 03/09/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/07/22 19:33
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1612953-5					
Methylene chloride	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
Tetrachloroethene	ND		ug/l	0.50	0.18
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Trichloroethene	ND		ug/l	0.50	0.18
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	111		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2211508

Report Date: 03/09/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1612953-3 WG1612953-4								
Methylene chloride	100		110		70-130	10		20
Carbon tetrachloride	120		130		63-132	8		20
Tetrachloroethene	110		110		70-130	0		20
1,1,1-Trichloroethane	120		120		67-130	0		20
Vinyl chloride	90		92		55-140	2		20
1,1-Dichloroethene	110		110		61-145	0		20
Trichloroethene	99		100		70-130	1		20
cis-1,2-Dichloroethene	100		110		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	116		118		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	103		100		70-130
Dibromofluoromethane	107		108		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2211508
Report Date: 03/09/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1612953-6 WG1612953-7 QC Sample: L2211508-03 Client ID: MW-3_030422												
Methylene chloride	ND	10	11	110		11	110		70-130	0		20
Carbon tetrachloride	ND	10	14	**140**	Q	14	**140**	Q	63-132	0		20
Tetrachloroethene	0.46J	10	12	120		12	120		70-130	0		20
1,1,1-Trichloroethane	ND	10	13	130		14	**140**	Q	67-130	7		20
Vinyl chloride	ND	10	10	100		10	100		55-140	0		20
1,1-Dichloroethene	ND	10	12	120		12	120		61-145	0		20
Trichloroethene	ND	10	10	100		11	110		70-130	10		20
cis-1,2-Dichloroethene	ND	10	11	110		12	120		70-130	9		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		121		70-130
4-Bromofluorobenzene	102		103		70-130
Dibromofluoromethane	111		109		70-130
Toluene-d8	102		101		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2211508
Report Date: 03/09/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2211508-01A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2211508-01B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2211508-01C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2211508-02A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2211508-02B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2211508-02C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2211508-03A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2211508-03A1	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2211508-03A2	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2211508-03B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2211508-03B1	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2211508-03B2	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2211508-03C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2211508-03C1	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2211508-03C2	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2211508-04A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2211508-04B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2211508-04C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2211508-05A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2211508-05B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2211508-05C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2211508-06A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2211508-06B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2211508
Report Date: 03/09/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)

*Values in parentheses indicate holding time in days

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2211508
Project Number:	170599501	**Report Date:**	03/09/22

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:	1607 SURF AVENUE	**Lab Number:**	L2211508
Project Number:	170599501	**Report Date:**	03/09/22

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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2211508
Project Number:	170599501	**Report Date:**	03/09/22

Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2211508
Project Number:	170599501	**Report Date:**	03/09/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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, SM4500Cl-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, **LACHAT 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

ALPHA ANALYTICAL

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Mansfield, MA 02048
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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 1

Date Rec'd in Lab: 3/4/22

ALPHA Job #: L2211508

Project Information
Project Name: 1607 Surf Avenue
Project Location: Brooklyn, NY
Project #: 170599501
(Use Project name as Project #) ☐
Project Manager: Lamees Esmail
ALPHAQuote #:

Client Information
Client: Langan, DPC
Address:
Phone:
Fax:
Email: lesmail@langan.com

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
* Run all VOCs but only report CVOCs specified from Lamees Esmail email

Please specify Metals or TAL.

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☒ NY TOGS ☐ NY Part 375
☐ AWQ 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:

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Run all VOCs only report CVOCs specified in Lamees Esmail email	Sample Specific Comments	Total Bottle
11508-01	TMW-1_030422	03/04/22	1143	W	YMD	✓		
02	TMW-2_030422		1315			✓		
03	TMW-3_030422		0955			✓	*MS/MSD	
04	DUP01_030422		—			✓		
05	FB01_030422		1405			✓		
06	TB01_030422	↓	1415	↓	↓	✓		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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										
Preservative										

Relinquished By:	Date/Time	Received By:	Date/Time
	3/4/22 1435		3/4/22 14:35
Paul Massella	3/4/22 18:30	Paul Massella	3/4/22 18:30
Paul Massella	3/4/22 2330		3/4/22 2330

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2228969
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Lamees Esmail
Phone:	(212) 479-5717
Project Name:	1607 SURF AVENUE
Project Number:	170599501
Report Date:	06/06/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2228969
Report Date: 06/06/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2228969-01	MW-1_060222	WATER	BROOKLYN, NY	06/02/22 10:40	06/02/22
L2228969-02	MW-4_060222	WATER	BROOKLYN, NY	06/02/22 09:10	06/02/22
L2228969-03	MW-2_060222	WATER	BROOKLYN, NY	06/02/22 13:45	06/02/22
L2228969-04	MW-3_060222	WATER	BROOKLYN, NY	06/02/22 12:00	06/02/22
L2228969-05	DUP01_060222	WATER	BROOKLYN, NY	06/02/22 00:00	06/02/22
L2228969-06	FB01_060222	WATER	BROOKLYN, NY	06/02/22 11:30	06/02/22
L2228969-07	TB01_060222	WATER	BROOKLYN, NY	06/02/22 00:00	06/02/22

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2228969
Project Number:	170599501	**Report Date:**	06/06/22

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:	1607 SURF AVENUE	**Lab Number:**	L2228969
Project Number:	170599501	**Report Date:**	06/06/22

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: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 06/06/22

ORGANICS

VOLATILES

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2228969
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2228969-01
Client ID: MW-1_060222
Sample Location: BROOKLYN, NY

Date Collected: 06/02/22 10:40
Date Received: 06/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/04/22 11:27
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	1.8		ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	ND		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	99		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2228969
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2228969-02
Client ID: MW-4_060222
Sample Location: BROOKLYN, NY
Date Collected: 06/02/22 09:10
Date Received: 06/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/04/22 11:51
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	4.6		ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.11	J	ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	1.1		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	3.0		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	99		70-130

Project Name: 1607 SURF AVENUE
Lab Number: L2228969
Project Number: 170599501
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2228969-03
Client ID: MW-2_060222
Sample Location: BROOKLYN, NY
Date Collected: 06/02/22 13:45
Date Received: 06/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/04/22 12:15
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	1.1		ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	0.37	J	ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	98		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2228969
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2228969-04
Client ID: MW-3_060222
Sample Location: BROOKLYN, NY
Date Collected: 06/02/22 12:00
Date Received: 06/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/04/22 12:39
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	0.27	J	ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	ND		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	95		70-130

Project Name: 1607 SURF AVENUE
Lab Number: L2228969
Project Number: 170599501
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2228969-05
Client ID: DUP01_060222
Sample Location: BROOKLYN, NY
Date Collected: 06/02/22 00:00
Date Received: 06/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/04/22 13:03
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	1.9		ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	ND		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	95		70-130

Project Name: 1607 SURF AVENUE
Lab Number: L2228969
Project Number: 170599501
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2228969-06
Client ID: FB01_060222
Sample Location: BROOKLYN, NY
Date Collected: 06/02/22 11:30
Date Received: 06/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/04/22 13:27
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	ND		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	97		70-130

Project Name: 1607 SURF AVENUE
Lab Number: L2228969
Project Number: 170599501
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2228969-07
Client ID: TB01_060222
Sample Location: BROOKLYN, NY
Date Collected: 06/02/22 00:00
Date Received: 06/02/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/04/22 13:51
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	ND		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	96		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501
Lab Number: L2228969
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/04/22 11:02
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1646897-5					
Methylene chloride	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
Tetrachloroethene	ND		ug/l	0.50	0.18
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Trichloroethene	ND		ug/l	0.50	0.18
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2228969

Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1646897-3 WG1646897-4								
Methylene chloride	100		100		70-130	0		20
Carbon tetrachloride	100		100		63-132	0		20
Tetrachloroethene	94		96		70-130	2		20
1,1,1-Trichloroethane	110		100		67-130	10		20
Vinyl chloride	110		110		55-140	0		20
1,1-Dichloroethene	100		100		61-145	0		20
Trichloroethene	100		100		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		100		70-130
Toluene-d8	98		99		70-130
4-Bromofluorobenzene	106		106		70-130
Dibromofluoromethane	102		100		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVENUE

Project Number: 170599501

Lab Number: L2228969

Report Date: 06/06/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG1646897-6 WG1646897-7 QC Sample: L2228969-02 Client ID: MW-4_060222												
Methylene chloride	ND	10	9.5	95		10	100		70-130	5		20
Carbon tetrachloride	ND	10	9.8	98		11	110		63-132	12		20
Tetrachloroethene	4.6	10	15	104		16	114		70-130	6		20
1,1,1-Trichloroethane	ND	10	9.7	97		10	100		67-130	3		20
Vinyl chloride	0.11J	10	11	110		12	120		55-140	9		20
1,1-Dichloroethene	ND	10	9.8	98		11	110		61-145	12		20
Trichloroethene	1.1	10	10	89		11	99		70-130	10		20
cis-1,2-Dichloroethene	3.0	10	13	100		13	100		70-130	0		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		107		70-130
4-Bromofluorobenzene	106		107		70-130
Dibromofluoromethane	98		99		70-130
Toluene-d8	103		103		70-130

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2228969
Report Date: 06/06/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2228969-01A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-01B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-01C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-02A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-02A1	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-02A2	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-02B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-02B1	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-02B2	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-02C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-02C1	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-02C2	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-03A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-03B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-03C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-04A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-04B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-04C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-05A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-05B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-05C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-06A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-06B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 1607 SURF AVENUE
Project Number: 170599501

Lab Number: L2228969
Report Date: 06/06/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2228969-06C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-07A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2228969-07B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2228969
Project Number:	170599501	**Report Date:**	06/06/22

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:	1607 SURF AVENUE	**Lab Number:**	L2228969
Project Number:	170599501	**Report Date:**	06/06/22

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.

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'.

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.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2228969
Project Number:	170599501	**Report Date:**	06/06/22

Data Qualifiers

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVENUE	**Lab Number:**	L2228969
Project Number:	170599501	**Report Date:**	06/06/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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, SM4500Cl-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, **LACHAT 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.

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
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 1

Date Rec'd in Lab: 6/3/22

ALPHA Job #: L2228969

Client Information
Client: Langan Engineering
Address: 360 W 31st St, NY, NY 10001
Phone: 212-479-5400
Fax: 212-479-5444
Email: lesmail@langan.com

Project Information
Project Name: 1607 Surf Avenue
Project Location: Brooklyn, NY
Project #: 170599501
(Use Project name as Project #): ☐
Project Manager: Lamees ESmail
ALPHAQuote #:

Turn-Around Time
Standard: ☑ Due Date: 2Day TAT
Rush (only if pre approved): ☑ # of Days:

Deliverables
☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☑ Same as Client Info
PO #

Regulatory Requirement
☑ NY TOGS ☐ NY Part 375
☐ AWQ 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:
Please cc: Ksemon@langan.com | Run all VOCs but only report CVOCs specified from Lamees ESmail email

Please specify Metals or TAL.

ANALYSIS
Run all VOCs but only report CVOCs specified in Lamees ESmail email

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments
28969-01	MW-1-060222	6/2/22	10:40	GW	CB	
-02	MW-4-060222		9:10	GW		MS/MSD
-03	MW-2-060222		13:45	GW		
-04	MW-3-060222		12:00	GW		
-05	DUP01-060222		—	GW		
-06	EB01-060222		11:30	EB		
-07	TB01-060222		11:35	TB		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	6/2/22 1455	Luis Morales	6/2/22 1455
Luis Morales	6/2/22 2020	Guillermo Green	6/2/22 2100
Guillermo Green	6/3/22		6/3/22 0045
	6/3/22 0255		6/3/22 0755

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2241866
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Lamees Esmail
Phone:	(212) 479-5717
Project Name:	1607 SURF AVE
Project Number:	170599501
Report Date:	08/08/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1607 SURF AVE
Project Number: 170599501

Lab Number: L2241866
Report Date: 08/08/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2241866-01	MW-4_080422	WATER	BROOKLYN, NY	08/04/22 10:15	08/04/22
L2241866-02	DUP01_080422	WATER	BROOKLYN, NY	08/04/22 00:00	08/04/22
L2241866-03	FB01_080422	WATER	BROOKLYN, NY	08/04/22 10:30	08/04/22
L2241866-04	TB01_080422	WATER	BROOKLYN, NY	08/04/22 00:00	08/04/22

Project Name:	1607 SURF AVE	**Lab Number:**	L2241866
Project Number:	170599501	**Report Date:**	08/08/22

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:	1607 SURF AVE	**Lab Number:**	L2241866
Project Number:	170599501	**Report Date:**	08/08/22

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: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 08/08/22

ORGANICS

VOLATILES

Project Name: 1607 SURF AVE
Project Number: 170599501
Lab Number: L2241866
Report Date: 08/08/22

SAMPLE RESULTS

Lab ID: L2241866-01
Client ID: MW-4_080422
Sample Location: BROOKLYN, NY

Date Collected: 08/04/22 10:15
Date Received: 08/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/05/22 09:05
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	4.6		ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.20	J	ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	1.0		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	4.1		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

Project Name: 1607 SURF AVE
Project Number: 170599501
Lab Number: L2241866
Report Date: 08/08/22

SAMPLE RESULTS

Lab ID: L2241866-02
Client ID: DUP01_080422
Sample Location: BROOKLYN, NY

Date Collected: 08/04/22 00:00
Date Received: 08/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/05/22 09:30
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	4.0		ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.14	J	ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	0.95		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	3.5		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	101		70-130

Project Name: 1607 SURF AVE
Project Number: 170599501
Lab Number: L2241866
Report Date: 08/08/22

SAMPLE RESULTS

Lab ID: L2241866-03
Client ID: FB01_080422
Sample Location: BROOKLYN, NY

Date Collected: 08/04/22 10:30
Date Received: 08/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/05/22 09:55
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	ND		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130

Project Name: 1607 SURF AVE
Project Number: 170599501
Lab Number: L2241866
Report Date: 08/08/22

SAMPLE RESULTS

Lab ID: L2241866-04
Client ID: TB01_080422
Sample Location: BROOKLYN, NY

Date Collected: 08/04/22 00:00
Date Received: 08/04/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/05/22 10:19
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Trichloroethene	ND		ug/l	0.50	0.18	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Project Name: 1607 SURF AVE
Project Number: 170599501
Lab Number: L2241866
Report Date: 08/08/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/05/22 08:41
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1672328-5					
Methylene chloride	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
Tetrachloroethene	ND		ug/l	0.50	0.18
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Trichloroethene	ND		ug/l	0.50	0.18
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1607 SURF AVE

Project Number: 170599501

Lab Number: L2241866

Report Date: 08/08/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1672328-3 WG1672328-4								
Methylene chloride	100		100		70-130	0		20
Carbon tetrachloride	100		110		63-132	10		20
Tetrachloroethene	96		99		70-130	3		20
1,1,1-Trichloroethane	100		110		67-130	10		20
Vinyl chloride	110		110		55-140	0		20
1,1-Dichloroethene	110		110		61-145	0		20
Trichloroethene	98		100		70-130	2		20
cis-1,2-Dichloroethene	110		110		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		96		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	98		101		70-130
Dibromofluoromethane	99		101		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 1607 SURF AVE
Project Number: 170599501
Lab Number: L2241866
Report Date: 08/08/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1672328-6 WG1672328-7 QC Sample: L2241866-01 Client ID: MW-4_080422												
Methylene chloride	ND	10	9.9	99		11	110		70-130	11		20
Carbon tetrachloride	ND	10	11	110		12	120		63-132	9		20
Tetrachloroethene	4.6	10	13	84		14	94		70-130	7		20
1,1,1-Trichloroethane	ND	10	10	100		12	120		67-130	18		20
Vinyl chloride	0.20J	10	12	120		13	130		55-140	8		20
1,1-Dichloroethene	ND	10	11	110		12	120		61-145	9		20
Trichloroethene	1.0	10	11	100		12	110		70-130	9		20
cis-1,2-Dichloroethene	4.1	10	14	99		15	109		70-130	7		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		97		70-130
4-Bromofluorobenzene	97		97		70-130
Dibromofluoromethane	102		100		70-130
Toluene-d8	99		99		70-130

Project Name: 1607 SURF AVE
Project Number: 170599501

Lab Number: L2241866
Report Date: 08/08/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2241866-01A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2241866-01A1	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2241866-01A2	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2241866-01B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2241866-01B1	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2241866-01B2	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2241866-01C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2241866-01C1	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2241866-01C2	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2241866-02A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2241866-02B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2241866-02C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2241866-03A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2241866-03B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2241866-03C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2241866-04A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2241866-04B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	1607 SURF AVE	**Lab Number:**	L2241866
Project Number:	170599501	**Report Date:**	08/08/22

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:	1607 SURF AVE	**Lab Number:**	L2241866
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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:	1607 SURF AVE	**Lab Number:**	L2241866
Project Number:	170599501	**Report Date:**	08/08/22

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	1607 SURF AVE	**Lab Number:**	L2241866
Project Number:	170599501	**Report Date:**	08/08/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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, SM4500Cl-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, **LACHAT 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

ALPHA ANALYTICAL

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TEL: 508-898-9220
FAX: 508-898-9193

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 1

Date Rec'd in Lab: 8/4/22

ALPHA Job #: L2241866

Client Information

Client: Langan Engineering
Address: 360 W 31st St
NY, NY 1000
Phone: 212-479-5400
Fax: 212-479-5444
Email: lesmail@langan.com

Project Information

Project Name: 1607 Sutter Ave
Project Location: Brooklyn NY
Project #: 170594501
(Use Project name as Project #) ☐
Project Manager: Lamees Esmail
ALPHAQuote #:

Turn-Around Time

Standard ☐ Due Date: 2 Day/TAT
Rush (only if pre approved) ☑ # of Days:

Deliverables

☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☑ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☑ Same as Client Info
PO #

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:

Please cc: ksemon@langan.com / Run all VOCs but only report CVOCs specified from Lamees Esmail email

Please specify Metals or TAL.

ANALYSIS

Run all VOCs only report CVOCs in Lamees Esmail email

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments
41866-01	MW-4-080422	8/4/22	10:15	GW	YMD	MS/MSD
02	DUP01-080422		~~10:30~~ 4A	↓		
03	FB01-080422		10:30	FB		
04	TB01-080422	↓	—	FB	↓	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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								
Preservative								

Relinquished By:	Date/Time	Received By:	Date/Time
	8/4/22 1200		8/4/22 1202
Paul Mazzella AAC	8/4/22 1450	Paul Mazzella	8/4/22 1602
	8/4/22		8/4/22 2220

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)