

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

e-Hardcopy 2.0
Automated Report

Technical Report for

SESI Consulting Engineers

4th 83rd Street, Pelham, NY

12335

SGS Job Number: JD47860

Sampling Date: 07/06/22

Report to:

SESI Consulting Engineers

jcs@sesi.org

ATTN: Jonathan Stuart

Total number of pages in report: 53



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

A blue ink signature of David Chastain.

David Chastain
General Manager

Client Service contact: Kelly Ramos 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Case Narrative/Conformance Summary	4
Section 3: Summary of Hits	9
Section 4: Sample Results	13
4.1: JD47860-1: TW-3	14
4.2: JD47860-1A: TW-3	22
4.3: JD47860-2: TW-4	24
4.4: JD47860-3: TW-7	34
4.5: JD47860-3A: TW-7	44
4.6: JD47860-4: TB 20220706	46
Section 5: Misc. Forms	48
5.1: Chain of Custody	49
5.2: Chain of Custody (SGS Orlando, FL)	52

1

2

3

4

5



Sample Summary

SESI Consulting Engineers

Job No: JD47860

**4th 83rd Street, Pelham, NY
Project No: 12335**

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
---------------	----------------	---------	----------	-------------	------	------------------

**This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL**

JD47860-1	07/06/22	15:30	BS	07/06/22	AQ	Ground Water	TW-3
JD47860-1A	07/06/22	15:30	BS	07/06/22	AQ	Ground Water	TW-3
JD47860-2	07/06/22	12:30	BS	07/06/22	AQ	Ground Water	TW-4
JD47860-3	07/06/22	14:50	BS	07/06/22	AQ	Ground Water	TW-7
JD47860-3A	07/06/22	14:50	BS	07/06/22	AQ	Ground Water	TW-7
JD47860-4	07/06/22	15:30	BS	07/06/22	AQ	Trip Blank Water	TB 20220706

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: SESI Consulting Engineers

Job No: JD47860

Site: 4th 83rd Street, Pelham, NY

Report Date 8/1/2022 2:49:38 PM

On 07/06/2022, 3 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 4.3 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD47860 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260D

Matrix: AQ

Batch ID: V2A9490

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD47744-22MS, JD47744-22MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD47860-3: (pH=3)Sample pH did not satisfy field preservation criteria.
- JD47860-3 for Freon 113: Associated CCV outside of control limits high, sample was ND.
- JD47860-3 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD47860-4 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD47860-4 for Freon 113: Associated CCV outside of control limits high, sample was ND.
- JD47860-1 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD47860-1 for Vinyl chloride: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD47860-4 for Vinyl chloride: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD47860-1 for Freon 113: Associated CCV outside of control limits high, sample was ND.

Matrix: AQ

Batch ID: V3D7551

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD47159-1MS, JD47159-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Carbon tetrachloride are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Carbon tetrachloride are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Recovery(s) for 1,1,2-Trichloroethane, Chloroform, Tetrachloroethene, Trichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount. Outside control limits due to matrix interference.
- JD47860-2 for Methyl Acetate: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD47860-2 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

Monday, August 1, 2022

Page 1 of 4

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: AQ **Batch ID:** F:OP92114

- The data for EPA 537M BY ID meets quality control requirements.
- JD47860-3A: Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- JD47860-1A: Confirmed by re-extraction and reanalysis. Analysis performed at SGS Orlando, FL.
- JD47860-3A: Analysis performed at SGS Orlando, FL.
- JD47860-1A for Perfluorotetradecanoic acid: Associated ID Standard outside control limits.

Matrix: AQ **Batch ID:** F:OP92305

- The data for EPA 537M BY ID meets quality control requirements.

MS Semi-volatiles By Method SW846 8270E

Matrix: AQ **Batch ID:** OP40689

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD47860-3 have surrogates outside control limits. Probable cause due to matrix interference.
- JD47860-3 for 2-Fluorobiphenyl: Outside of in house control limits.
- JD47860-3 for Nitrobenzene-d5: Outside of in house control limits.
- JD47860-1 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD47860-3 for Pentachlorophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD47860-3 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD47860-3 for Phenol-d5: Outside of in house control limits.
- JD47860-2 for Pentachlorophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD47860-1 for Pentachlorophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD47860-2 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- OP40689-BSD for Di-n-octyl phthalate: Analytical precision exceeds in-house control limits.
- OP40689-BSD for 4-Bromophenyl phenyl ether: Analytical precision exceeds in-house control limits.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: AQ **Batch ID:** OP40689A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD47860-3 have surrogates outside control limits. Probable cause due to matrix interference.
- JD47860-3 for Nitrobenzene-d5: Outside of in house control limits.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: AQ

Batch ID: OP40684

- All samples were extracted within the recommended method holding time.
- Sample(s) JD47860-2, JD47860-3 have compound(s) reported with a “B” qualifier, indicating analyte is found in the associated method blank.
- Sample(s) JD47860-3 have surrogates outside control limits. Probable cause due to matrix interference.
- OP40684-MB1: Detections due to lab contamination.
- JD47860-3 for Decachlorobiphenyl: Outside of in house control limits.

GC/LC Semi-volatiles By Method SW846 8082A

Matrix: AQ

Batch ID: OP40685

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD47860-3 have surrogates outside control limits. Probable cause due to matrix interference.
- OP40685-BSD: Targets double spiked. The recovery re-calculated based on the spike amount.
- OP40685-BSD for Tetrachloro-m-xylene: Outside of in house control limits.
- JD47860-3 for Decachlorobiphenyl: Outside of in house control limits.

Metals Analysis By Method SW846 6010D

Matrix: AQ

Batch ID: MP33950

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD47871-1MS, JD47871-1MSD, JD47871-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Chromium, Potassium, Selenium, Zinc are outside control limits for sample MP33950-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Samples(s) JD47860-1, JD47860-2, JD47860-3: New York does not offer 3010A certification for antimony and silver. The laboratory is certified for method 3010A (Acid Digestion for Total Metals) for all other metals and is certified for the associated analytical methods of 6010C (ICP Analysis) and 6020A (ICP-MS Analysis). New York does certify for method 3005A (Acid Digestion for Total Recoverable or Dissolved Metals) for antimony and silver and the laboratory holds that certification, but that provides total recoverable rather than total metals results.
- JD47860-2 for Aluminum: Elevated sample detection limit due to difficult sample matrix.
- JD47860-3 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD47860-2 for Lead: Elevated detection limit due to dilution required for high interfering element.
- JD47860-1 for Selenium: Elevated detection limit due to dilution required for high interfering element.
- JD47860-2 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD47860-1 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD47860-2 for Selenium: Elevated detection limit due to dilution required for high interfering element.
- JD47860-1 for Sodium: Elevated detection limit due to dilution required for high interfering element.
- JD47860-1 for Lead: Elevated detection limit due to dilution required for high interfering element.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Dayton, NJ

Job No: JD47860

Site: SESINJPB: 4th 83rd Street, Pelham, NY

Report Date: 8/1/2022 12:02:12 PM

On 07/08/2022, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 0.8 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of JD47860 was assigned to the project.

Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: AQ

Batch ID: OP92114

Sample(s) JD47661-2AMS, JD47661-5ADUP were used as the QC samples indicated.

Sample(s) JD47860-1A, JD47860-3A have surrogates outside control limits.

JD47860-1A for Perfluorotetradecanoic acid: Associated ID Standard outside control limits.

JD47860-1A: Confirmed by re-extraction and reanalysis.

JD47860-3A for 13C2-PFDoDA: Outside control limits.

JD47860-3A for 13C7-PFUnDA: Outside control limits.

JD47860-3A: Dilution required due to matrix interference (ID recovery standard failure).

Matrix: AQ

Batch ID: OP92305

Sample(s) JD47860-1A have surrogates outside control limits.

JD47860-1A: Confirmation run.

SGS North America Inc. - Orlando certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc.- Orlando is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

Kim Benham, Client Services (*Signature on File*)

Summary of Hits

Job Number: JD47860
 Account: SESI Consulting Engineers
 Project: 4th 83rd Street, Pelham, NY
 Collected: 07/06/22



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

JD47860-1 TW-3

Acetone	30.9	10	3.1	ug/l	SW846 8260D
2-Butanone (MEK)	8.0 J	10	6.9	ug/l	SW846 8260D
Acenaphthylene	0.16 J	1.1	0.15	ug/l	SW846 8270E
Benzaldehyde	0.69 J	5.6	0.32	ug/l	SW846 8270E
Benzo(a)anthracene	0.36 J	1.1	0.23	ug/l	SW846 8270E
Benzo(a)pyrene	0.34 J	1.1	0.24	ug/l	SW846 8270E
Benzo(b)fluoranthene	0.23 J	1.1	0.23	ug/l	SW846 8270E
Chrysene	0.30 J	1.1	0.20	ug/l	SW846 8270E
Di-n-butyl phthalate	4.0	2.2	0.55	ug/l	SW846 8270E
Diethyl phthalate	0.29 J	2.2	0.29	ug/l	SW846 8270E
bis(2-Ethylhexyl)phthalate	3.7	2.2	1.8	ug/l	SW846 8270E
Fluoranthene	0.83 J	1.1	0.19	ug/l	SW846 8270E
Phenanthrene	2.6	1.1	0.19	ug/l	SW846 8270E
Pyrene	1.5	1.1	0.24	ug/l	SW846 8270E
Total TIC, Semi-Volatile	204.4 J			ug/l	
Aluminum	2180	200		ug/l	SW846 6010D
Barium	595	200		ug/l	SW846 6010D
Calcium	159000	5000		ug/l	SW846 6010D
Copper	10.7	10		ug/l	SW846 6010D
Iron	30800	100		ug/l	SW846 6010D
Lead ^a	29.1	15		ug/l	SW846 6010D
Magnesium	55700	5000		ug/l	SW846 6010D
Manganese	2580	15		ug/l	SW846 6010D
Nickel	15.8	10		ug/l	SW846 6010D
Potassium	11000	10000		ug/l	SW846 6010D
Sodium ^a	491000	50000		ug/l	SW846 6010D
Zinc	96.4	20		ug/l	SW846 6010D

JD47860-1A TW-3

Perfluorobutanoic acid ^b	32.9	3.7	1.9	ng/l	EPA 537M BY ID
Perfluoropentanoic acid ^b	74.5	1.9	0.93	ng/l	EPA 537M BY ID
Perfluorohexanoic acid ^b	28.2	1.9	0.93	ng/l	EPA 537M BY ID
Perfluoroheptanoic acid ^b	11.7	1.9	0.93	ng/l	EPA 537M BY ID
Perfluorooctanoic acid ^b	5.2	1.9	0.93	ng/l	EPA 537M BY ID
6:2 Fluorotelomer sulfonate ^b	149	7.4	1.9	ng/l	EPA 537M BY ID

JD47860-2 TW-4

Acetone	3.4 J	10	3.1	ug/l	SW846 8260D
Benzene	3.8	0.50	0.43	ug/l	SW846 8260D
Toluene	1.2	1.0	0.53	ug/l	SW846 8260D
m,p-Xylene	0.79 J	1.0	0.78	ug/l	SW846 8260D

Summary of Hits

Job Number: JD47860
 Account: SESI Consulting Engineers
 Project: 4th 83rd Street, Pelham, NY
 Collected: 07/06/22



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Xylene (total)		0.79 J	1.0	0.59	ug/l	SW846 8260D
Acenaphthene		0.21 J	1.1	0.21	ug/l	SW846 8270E
Acenaphthylene		0.58 J	1.1	0.15	ug/l	SW846 8270E
Acetophenone		0.23 J	2.2	0.23	ug/l	SW846 8270E
Anthracene		0.34 J	1.1	0.23	ug/l	SW846 8270E
Benzaldehyde		0.67 J	5.6	0.32	ug/l	SW846 8270E
Benzo(a)anthracene		0.72 J	1.1	0.23	ug/l	SW846 8270E
Benzo(a)pyrene		0.68 J	1.1	0.24	ug/l	SW846 8270E
Benzo(b)fluoranthene		0.71 J	1.1	0.23	ug/l	SW846 8270E
Benzo(g,h,i)perylene		0.81 J	1.1	0.38	ug/l	SW846 8270E
Benzo(k)fluoranthene		0.38 J	1.1	0.23	ug/l	SW846 8270E
Chrysene		0.95 J	1.1	0.20	ug/l	SW846 8270E
Di-n-butyl phthalate		8.9	2.2	0.55	ug/l	SW846 8270E
bis(2-Ethylhexyl)phthalate		6.8	2.2	1.8	ug/l	SW846 8270E
Fluoranthene		0.96 J	1.1	0.19	ug/l	SW846 8270E
Fluorene		0.28 J	1.1	0.19	ug/l	SW846 8270E
Indeno(1,2,3-cd)pyrene		0.81 J	1.1	0.37	ug/l	SW846 8270E
2-Methylnaphthalene		0.31 J	1.1	0.23	ug/l	SW846 8270E
Naphthalene		0.28 J	1.1	0.26	ug/l	SW846 8270E
N-Nitrosodiphenylamine		0.34 J	5.6	0.25	ug/l	SW846 8270E
Phenanthrene		1.3	1.1	0.19	ug/l	SW846 8270E
Pyrene		1.5	1.1	0.24	ug/l	SW846 8270E
Total TIC, Semi-Volatile		210.2 J			ug/l	
4,4'-DDT		0.012 B	0.0049	0.0034	ug/l	SW846 8081B
Aluminum ^c		125000	400		ug/l	SW846 6010D
Arsenic ^a		58.0	30		ug/l	SW846 6010D
Barium ^c		1780	400		ug/l	SW846 6010D
Beryllium ^c		7.8	2.0		ug/l	SW846 6010D
Cadmium ^c		11.2	6.0		ug/l	SW846 6010D
Calcium ^c		182000	10000		ug/l	SW846 6010D
Chromium ^c		616	20		ug/l	SW846 6010D
Cobalt ^c		120	100		ug/l	SW846 6010D
Copper ^c		607	20		ug/l	SW846 6010D
Iron ^c		269000	200		ug/l	SW846 6010D
Lead ^a		1100	30		ug/l	SW846 6010D
Magnesium ^c		108000	10000		ug/l	SW846 6010D
Manganese ^c		3520	30		ug/l	SW846 6010D
Nickel ^c		376	20		ug/l	SW846 6010D
Potassium ^c		20500	20000		ug/l	SW846 6010D
Sodium ^c		62900	20000		ug/l	SW846 6010D
Vanadium ^c		348	100		ug/l	SW846 6010D
Zinc ^c		1400	40		ug/l	SW846 6010D

Summary of Hits

Job Number: JD47860
 Account: SESI Consulting Engineers
 Project: 4th 83rd Street, Pelham, NY
 Collected: 07/06/22



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

JD47860-3 TW-7

Naphthalene		0.23 J	1.0	0.23	ug/l	SW846 8270E
Total TIC, Semi-Volatile		11 J			ug/l	
4,4'-DDT		0.0098 B	0.0048	0.0033	ug/l	SW846 8081B
Aluminum		85700	200		ug/l	SW846 6010D
Arsenic ^a		31.2	15		ug/l	SW846 6010D
Barium		698	200		ug/l	SW846 6010D
Beryllium		4.3	1.0		ug/l	SW846 6010D
Cadmium		5.4	3.0		ug/l	SW846 6010D
Calcium		74100	5000		ug/l	SW846 6010D
Chromium		286	10		ug/l	SW846 6010D
Cobalt		59.9	50		ug/l	SW846 6010D
Copper		328	10		ug/l	SW846 6010D
Iron		120000	100		ug/l	SW846 6010D
Lead ^a		78.0	15		ug/l	SW846 6010D
Magnesium		32900	5000		ug/l	SW846 6010D
Manganese		929	15		ug/l	SW846 6010D
Nickel		228	10		ug/l	SW846 6010D
Potassium		21700	10000		ug/l	SW846 6010D
Selenium ^a		50.6	50		ug/l	SW846 6010D
Silver		10.0	10		ug/l	SW846 6010D
Sodium		1030000	100000		ug/l	SW846 6010D
Vanadium		324	50		ug/l	SW846 6010D
Zinc		336	20		ug/l	SW846 6010D

JD47860-3A TW-7

Perfluorobutanoic acid ^d		6.7	3.9	2.0	ng/l	EPA 537M BY ID
Perfluoropentanoic acid ^d		8.9	2.0	0.98	ng/l	EPA 537M BY ID
Perfluorohexanoic acid ^d		5.7	2.0	0.98	ng/l	EPA 537M BY ID
Perfluoroheptanoic acid ^d		3.6	2.0	0.98	ng/l	EPA 537M BY ID
Perfluorooctanoic acid ^d		8.2	2.0	0.98	ng/l	EPA 537M BY ID
Perfluorononanoic acid ^d		3.2	2.0	0.98	ng/l	EPA 537M BY ID
Perfluorodecanoic acid ^d		5.2	2.0	0.98	ng/l	EPA 537M BY ID
Perfluorobutanesulfonic acid ^d		7.3	2.0	0.98	ng/l	EPA 537M BY ID
Perfluorohexanesulfonic acid ^d		1.0 J	2.0	0.98	ng/l	EPA 537M BY ID
Perfluorooctanesulfonic acid ^d		18.5	2.0	0.98	ng/l	EPA 537M BY ID

JD47860-4 TB 20220706

No hits reported in this sample.

- (a) Elevated detection limit due to dilution required for high interfering element.
- (b) Confirmed by re-extraction and reanalysis. Analysis performed at SGS Orlando, FL.

Summary of Hits

Job Number: JD47860
Account: SESI Consulting Engineers
Project: 4th 83rd Street, Pelham, NY
Collected: 07/06/22



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

- (c) Elevated sample detection limit due to difficult sample matrix.
- (d) Analysis performed at SGS Orlando, FL.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: TW-3	Date Sampled: 07/06/22
Lab Sample ID: JD47860-1	Date Received: 07/06/22
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: 4th 83rd Street, Pelham, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A218307.D	1	07/08/22 19:21	NH	n/a	n/a	V2A9490
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	30.9	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	8.0	10	6.9	ug/l	J
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^a	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113 ^b	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TW-3		Date Sampled: 07/06/22
Lab Sample ID: JD47860-1		Date Received: 07/06/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: 4th 83rd Street, Pelham, NY		

VOA TCL List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		80-120%
17060-07-0	1,2-Dichloroethane-D4	89%		80-120%
2037-26-5	Toluene-D8	94%		80-120%
460-00-4	4-Bromofluorobenzene	93%		82-114%

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

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

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

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

Report of Analysis

Client Sample ID:	TW-3	Date Sampled:	07/06/22
Lab Sample ID:	JD47860-1	Date Received:	07/06/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	4th 83rd Street, Pelham, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P150510.D	1	07/10/22 18:32	KLS	07/09/22 15:40	OP40689	EP6960
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.6	0.91	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.6	0.99	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.2	1.4	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.6	2.7	ug/l	
51-28-5	2,4-Dinitrophenol	ND	5.6	1.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.6	1.4	ug/l	
95-48-7	2-Methylphenol	ND	2.2	0.99	ug/l	
	3&4-Methylphenol	ND	2.2	0.98	ug/l	
88-75-5	2-Nitrophenol	ND	5.6	1.1	ug/l	
100-02-7	4-Nitrophenol	ND	11	1.3	ug/l	
87-86-5	Pentachlorophenol a	ND	4.4	1.5	ug/l	
108-95-2	Phenol	ND	2.2	0.44	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.6	1.6	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.6	1.5	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.6	1.0	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.21	ug/l	
208-96-8	Acenaphthylene	0.16	1.1	0.15	ug/l	J
98-86-2	Acetophenone	ND	2.2	0.23	ug/l	
120-12-7	Anthracene	ND	1.1	0.23	ug/l	
1912-24-9	Atrazine	ND	2.2	0.50	ug/l	
100-52-7	Benzaldehyde	0.69	5.6	0.32	ug/l	J
56-55-3	Benzo(a)anthracene	0.36	1.1	0.23	ug/l	J
50-32-8	Benzo(a)pyrene	0.34	1.1	0.24	ug/l	J
205-99-2	Benzo(b)fluoranthene	0.23	1.1	0.23	ug/l	J
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.38	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.23	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.2	0.45	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.2	0.51	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.24	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.2	0.26	ug/l	
106-47-8	4-Chloroaniline	ND	5.6	0.38	ug/l	
86-74-8	Carbazole	ND	1.1	0.25	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TW-3	Date Sampled:	07/06/22
Lab Sample ID:	JD47860-1	Date Received:	07/06/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	4th 83rd Street, Pelham, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.2	0.72	ug/l	
218-01-9	Chrysene	0.30	1.1	0.20	ug/l	J
111-91-1	bis(2-Chloroethoxy)methane	ND	2.2	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.2	0.28	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.2	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.2	0.41	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.1	0.61	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.1	0.53	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.2	0.56	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.37	ug/l	
132-64-9	Dibenzofuran	ND	5.6	0.24	ug/l	
84-74-2	Di-n-butyl phthalate	4.0	2.2	0.55	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.2	0.26	ug/l	
84-66-2	Diethyl phthalate	0.29	2.2	0.29	ug/l	J
131-11-3	Dimethyl phthalate	ND	2.2	0.24	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	3.7	2.2	1.8	ug/l	
206-44-0	Fluoranthene	0.83	1.1	0.19	ug/l	J
86-73-7	Fluorene	ND	1.1	0.19	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.36	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.55	ug/l	
77-47-4	Hexachlorocyclopentadiene ^a	ND	11	3.1	ug/l	
67-72-1	Hexachloroethane	ND	2.2	0.43	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.37	ug/l	
78-59-1	Isophorone	ND	2.2	0.31	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.23	ug/l	
88-74-4	2-Nitroaniline	ND	5.6	0.31	ug/l	
99-09-2	3-Nitroaniline	ND	5.6	0.43	ug/l	
100-01-6	4-Nitroaniline	ND	5.6	0.49	ug/l	
91-20-3	Naphthalene	ND	1.1	0.26	ug/l	
98-95-3	Nitrobenzene	ND	2.2	0.71	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.2	0.53	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.25	ug/l	
85-01-8	Phenanthrene	2.6	1.1	0.19	ug/l	
129-00-0	Pyrene	1.5	1.1	0.24	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.2	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	24%		10-71%
4165-62-2	Phenol-d5	18%		10-58%

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TW-3 Lab Sample ID: JD47860-1 Matrix: AQ - Ground Water Method: SW846 8270E SW846 3510C Project: 4th 83rd Street, Pelham, NY	Date Sampled: 07/06/22 Date Received: 07/06/22 Percent Solids: n/a
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	47%		22-144%
4165-60-0	Nitrobenzene-d5	54%		28-118%
321-60-8	2-Fluorobiphenyl	51%		34-116%
1718-51-0	Terphenyl-d14	38%		10-127%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	2.26	5.4	ug/l	J
	unknown	4.42	7.6	ug/l	J
	Internal standard added for SIM test	4.48	5.2	ug/l	J
	unknown acid	5.16	8.4	ug/l	J
	unknown acid	5.59	11	ug/l	J
	Internal standard added for SIM test	5.86	9	ug/l	J
143-07-7	Dodecanoic acid	6.92	47	ug/l	JN
544-63-8	Tetradecanoic acid	8.06	10	ug/l	JN
	unknown	10.91	6.4	ug/l	J
57-11-4	Octadecanoic acid	11.10	15	ug/l	JN
	alkane	11.71	7.4	ug/l	J
	alkane	12.29	6.3	ug/l	J
	alkane	12.51	6	ug/l	J
103-23-1	Hexanedioic acid, bis(2-ethylhexyl) este	12.92	23	ug/l	JN
	alkane	13.28	5.5	ug/l	J
	alkane	14.78	6.4	ug/l	J
	unknown	15.57	14	ug/l	J
	unknown	15.84	5.5	ug/l	J
	unknown	16.22	8.5	ug/l	J
	unknown	17.78	11	ug/l	J
	Total TIC, Semi-Volatile		204.4	ug/l	J

(a) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

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

Report of Analysis

Client Sample ID: TW-3 Lab Sample ID: JD47860-1 Matrix: AQ - Ground Water Method: SW846 8270E BY SIM SW846 3510C Project: 4th 83rd Street, Pelham, NY	Date Sampled: 07/06/22 Date Received: 07/06/22 Percent Solids: n/a
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M109719.D	1	07/10/22 14:51	KLS	07/09/22 15:40	OP40689A	E4M5103
Run #2							

Run #	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.11	0.056	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
4165-60-0	Nitrobenzene-d5	42%		23-127%		
321-60-8	2-Fluorobiphenyl	49%		23-114%		
1718-51-0	Terphenyl-d14	34%		10-121%		

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

4.1
4

Report of Analysis

Client Sample ID: TW-3 Lab Sample ID: JD47860-1 Matrix: AQ - Ground Water Project: 4th 83rd Street, Pelham, NY	Date Sampled: 07/06/22 Date Received: 07/06/22 Percent Solids: n/a
-----------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	2180	200	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Antimony	< 6.0	6.0	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Arsenic ^a	< 15	15	ug/l	5	07/08/22	07/11/22	ND SW846 6010D ³	SW846 3010A ⁴
Barium	595	200	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Beryllium	< 1.0	1.0	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Cadmium	< 3.0	3.0	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Calcium	159000	5000	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Chromium	< 10	10	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Cobalt	< 50	50	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Copper	10.7	10	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Iron	30800	100	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Lead ^a	29.1	15	ug/l	5	07/08/22	07/11/22	ND SW846 6010D ³	SW846 3010A ⁴
Magnesium	55700	5000	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Manganese	2580	15	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Mercury	< 0.20	0.20	ug/l	1	07/11/22	07/11/22	LM SW846 7470A ¹	SW846 7470A ⁵
Nickel	15.8	10	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Potassium	11000	10000	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Selenium ^a	< 50	50	ug/l	5	07/08/22	07/11/22	ND SW846 6010D ³	SW846 3010A ⁴
Silver	< 10	10	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Sodium ^a	491000	50000	ug/l	5	07/08/22	07/11/22	ND SW846 6010D ³	SW846 3010A ⁴
Thallium	< 10	10	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Vanadium	< 50	50	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Zinc	96.4	20	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴

- (1) Instrument QC Batch: MA52700
- (2) Instrument QC Batch: MA52704
- (3) Instrument QC Batch: MA52711
- (4) Prep QC Batch: MP33950
- (5) Prep QC Batch: MP34003

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

RL = Reporting Limit

4.1
4

Report of Analysis

Client Sample ID: TW-3	Date Sampled: 07/06/22
Lab Sample ID: JD47860-1	Date Received: 07/06/22
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: 4th 83rd Street, Pelham, NY	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	07/11/22 15:24	BR	EPA 335.4/LACHAT

RL = Reporting Limit

4.1
4

Report of Analysis

Client Sample ID: TW-3		Date Sampled: 07/06/22
Lab Sample ID: JD47860-1A		Date Received: 07/06/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 537M BY ID EPA 537 MOD		
Project: 4th 83rd Street, Pelham, NY		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Run# 3	Limits
	13C4-PFBA	57%	68%	59%	35-135%
	13C5-PFPeA	57%	74%	61%	50-150%
	13C5-PFHxA	54%	73%	62%	50-150%
	13C4-PFHpA	61%	83%	70%	50-150%
	13C8-PFOA	63%	83%	75%	50-150%
	13C9-PFNA	64%	87%	75%	50-150%
	13C6-PFDA	76%	81%	67%	50-150%
	13C7-PFUnDA	44%	68%	47%	40-140%
	13C2-PFDoDA	39% ^e	46%	40%	40-140%
	13C2-PFTeDA	27% ^e	26% ^e	10% ^e	30-130%
	13C3-PFBS	62%	85%	69%	50-150%
	13C3-PFHxS	64%	88%	67%	50-150%
	13C8-PFOS	66%	98%	60%	50-150%
	13C8-FOSA	15% ^e	66%	15% ^e	30-130%
	d3-MeFOSAA	95%	94%	76%	40-140%
	d5-EtFOSAA	63%	94%	55%	40-140%
	13C2-6:2FTS	77%	100%	94%	50-150%
	13C2-8:2FTS	85%	87%	79%	50-150%

- (a) Confirmed by re-extraction and reanalysis. Analysis performed at SGS Orlando, FL.
- (b) Confirmation run. Analysis performed at SGS Orlando, FL.
- (c) Result is from Run# 2
- (d) Associated ID Standard outside control limits.
- (e) Outside control limits.

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

4.2
4

Report of Analysis

Client Sample ID:	TW-4	Date Sampled:	07/06/22
Lab Sample ID:	JD47860-2	Date Received:	07/06/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	4th 83rd Street, Pelham, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D178970.D	1	07/11/22 19:49	NH	n/a	n/a	V3D7551
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	3.4	10	3.1	ug/l	J
71-43-2	Benzene	3.8	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^a	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TW-4		Date Sampled: 07/06/22
Lab Sample ID: JD47860-2		Date Received: 07/06/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: 4th 83rd Street, Pelham, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate ^a	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	1.2	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	0.79	1.0	0.78	ug/l	J
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	0.79	1.0	0.59	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

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

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

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

4.3
4

Report of Analysis

Client Sample ID:	TW-4	Date Sampled:	07/06/22
Lab Sample ID:	JD47860-2	Date Received:	07/06/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	4th 83rd Street, Pelham, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	P150511.D	1	07/10/22 18:57	KLS	07/09/22 15:40	OP40689	EP6960

Run #1	Initial Volume	Final Volume
Run #2	900 ml	1.0 ml

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.6	0.91	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.6	0.99	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.2	1.4	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.6	2.7	ug/l	
51-28-5	2,4-Dinitrophenol	ND	5.6	1.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.6	1.4	ug/l	
95-48-7	2-Methylphenol	ND	2.2	0.99	ug/l	
	3&4-Methylphenol	ND	2.2	0.98	ug/l	
88-75-5	2-Nitrophenol	ND	5.6	1.1	ug/l	
100-02-7	4-Nitrophenol	ND	11	1.3	ug/l	
87-86-5	Pentachlorophenol a	ND	4.4	1.5	ug/l	
108-95-2	Phenol	ND	2.2	0.44	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.6	1.6	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.6	1.5	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.6	1.0	ug/l	
83-32-9	Acenaphthene	0.21	1.1	0.21	ug/l	J
208-96-8	Acenaphthylene	0.58	1.1	0.15	ug/l	J
98-86-2	Acetophenone	0.23	2.2	0.23	ug/l	J
120-12-7	Anthracene	0.34	1.1	0.23	ug/l	J
1912-24-9	Atrazine	ND	2.2	0.50	ug/l	
100-52-7	Benzaldehyde	0.67	5.6	0.32	ug/l	J
56-55-3	Benzo(a)anthracene	0.72	1.1	0.23	ug/l	J
50-32-8	Benzo(a)pyrene	0.68	1.1	0.24	ug/l	J
205-99-2	Benzo(b)fluoranthene	0.71	1.1	0.23	ug/l	J
191-24-2	Benzo(g,h,i)perylene	0.81	1.1	0.38	ug/l	J
207-08-9	Benzo(k)fluoranthene	0.38	1.1	0.23	ug/l	J
101-55-3	4-Bromophenyl phenyl ether	ND	2.2	0.45	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.2	0.51	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.24	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.2	0.26	ug/l	
106-47-8	4-Chloroaniline	ND	5.6	0.38	ug/l	
86-74-8	Carbazole	ND	1.1	0.25	ug/l	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TW-4	Date Sampled:	07/06/22
Lab Sample ID:	JD47860-2	Date Received:	07/06/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	4th 83rd Street, Pelham, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.2	0.72	ug/l	
218-01-9	Chrysene	0.95	1.1	0.20	ug/l	J
111-91-1	bis(2-Chloroethoxy)methane	ND	2.2	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.2	0.28	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.2	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.2	0.41	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.1	0.61	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.1	0.53	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.2	0.56	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.37	ug/l	
132-64-9	Dibenzofuran	ND	5.6	0.24	ug/l	
84-74-2	Di-n-butyl phthalate	8.9	2.2	0.55	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.2	0.26	ug/l	
84-66-2	Diethyl phthalate	ND	2.2	0.29	ug/l	
131-11-3	Dimethyl phthalate	ND	2.2	0.24	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	6.8	2.2	1.8	ug/l	
206-44-0	Fluoranthene	0.96	1.1	0.19	ug/l	J
86-73-7	Fluorene	0.28	1.1	0.19	ug/l	J
118-74-1	Hexachlorobenzene	ND	1.1	0.36	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.55	ug/l	
77-47-4	Hexachlorocyclopentadiene ^a	ND	11	3.1	ug/l	
67-72-1	Hexachloroethane	ND	2.2	0.43	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.81	1.1	0.37	ug/l	J
78-59-1	Isophorone	ND	2.2	0.31	ug/l	
91-57-6	2-Methylnaphthalene	0.31	1.1	0.23	ug/l	J
88-74-4	2-Nitroaniline	ND	5.6	0.31	ug/l	
99-09-2	3-Nitroaniline	ND	5.6	0.43	ug/l	
100-01-6	4-Nitroaniline	ND	5.6	0.49	ug/l	
91-20-3	Naphthalene	0.28	1.1	0.26	ug/l	J
98-95-3	Nitrobenzene	ND	2.2	0.71	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.2	0.53	ug/l	
86-30-6	N-Nitrosodiphenylamine	0.34	5.6	0.25	ug/l	J
85-01-8	Phenanthrene	1.3	1.1	0.19	ug/l	
129-00-0	Pyrene	1.5	1.1	0.24	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.2	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	27%		10-71%
4165-62-2	Phenol-d5	17%		10-58%

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TW-4 Lab Sample ID: JD47860-2 Matrix: AQ - Ground Water Method: SW846 8270E SW846 3510C Project: 4th 83rd Street, Pelham, NY	Date Sampled: 07/06/22 Date Received: 07/06/22 Percent Solids: n/a
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	58%		22-144%
4165-60-0	Nitrobenzene-d5	65%		28-118%
321-60-8	2-Fluorobiphenyl	66%		34-116%
1718-51-0	Terphenyl-d14	62%		10-127%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	4.42	12	ug/l	J
	Ethanol, -(2-butoxyethoxy)-	5.24	9.6	ug/l	J
57-11-4	Octadecanoic acid	11.11	16	ug/l	JN
	unknown	11.51	7.6	ug/l	J
	alkane	11.72	11	ug/l	J
	alkane	12.51	20	ug/l	J
103-23-1	Hexanedioic acid, bis(2-ethylhexyl) este	12.92	34	ug/l	JN
	alkane	13.30	13	ug/l	J
	alkane	13.76	11	ug/l	J
	alkane	14.79	8.3	ug/l	J
	alkane	15.53	7.7	ug/l	J
	unknown	15.58	19	ug/l	J
	unknown	16.07	11	ug/l	J
	unknown	16.23	10	ug/l	J
	unknown	17.79	20	ug/l	J
	Total TIC, Semi-Volatile		210.2	ug/l	J

(a) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

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

4.3
4

Report of Analysis

Client Sample ID: TW-4 Lab Sample ID: JD47860-2 Matrix: AQ - Ground Water Method: SW846 8270E BY SIM SW846 3510C Project: 4th 83rd Street, Pelham, NY	Date Sampled: 07/06/22 Date Received: 07/06/22 Percent Solids: n/a
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M109720.D	1	07/10/22 15:13	KLS	07/09/22 15:40	OP40689A	E4M5103
Run #2							

Run #	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.11	0.056	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
4165-60-0	Nitrobenzene-d5	49%		23-127%		
321-60-8	2-Fluorobiphenyl	63%		23-114%		
1718-51-0	Terphenyl-d14	54%		10-121%		

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

4.3
4

Report of Analysis

Client Sample ID: TW-4	Date Sampled: 07/06/22
Lab Sample ID: JD47860-2	Date Received: 07/06/22
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8081B SW846 3510C	
Project: 4th 83rd Street, Pelham, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G177933.D	1	07/11/22 19:10	TL	07/08/22 09:50	OP40684	G1G6174
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1020 ml	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0049	0.0025	ug/l	
319-84-6	alpha-BHC	ND	0.0049	0.0025	ug/l	
319-85-7	beta-BHC	ND	0.0049	0.0039	ug/l	
319-86-8	delta-BHC	ND	0.0049	0.0032	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0049	0.0029	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0049	0.0024	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0049	0.0021	ug/l	
60-57-1	Dieldrin	ND	0.0049	0.0038	ug/l	
72-54-8	4,4'-DDD	ND	0.0049	0.0028	ug/l	
72-55-9	4,4'-DDE	ND	0.0049	0.0025	ug/l	
50-29-3	4,4'-DDT	0.012	0.0049	0.0034	ug/l	B
72-20-8	Endrin	ND	0.0049	0.0030	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0049	0.0027	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0049	0.0033	ug/l	
53494-70-5	Endrin ketone	ND	0.0049	0.0030	ug/l	
959-98-8	Endosulfan-I	ND	0.0049	0.0026	ug/l	
33213-65-9	Endosulfan-II	ND	0.0049	0.0024	ug/l	
76-44-8	Heptachlor	ND	0.0049	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0049	0.0029	ug/l	
72-43-5	Methoxychlor	ND	0.0098	0.0033	ug/l	
8001-35-2	Toxaphene	ND	0.12	0.080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		10-190%
877-09-8	Tetrachloro-m-xylene	119%		10-190%
2051-24-3	Decachlorobiphenyl	29%		10-156%
2051-24-3	Decachlorobiphenyl	21%		10-156%

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

Report of Analysis

Client Sample ID:	TW-4	Date Sampled:	07/06/22
Lab Sample ID:	JD47860-2	Date Received:	07/06/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	4th 83rd Street, Pelham, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^a	125000	400	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Antimony ^a	< 12	12	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Arsenic ^b	58.0	30	ug/l	5	07/08/22	07/11/22	ND SW846 6010D ³	SW846 3010A ⁴
Barium ^a	1780	400	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Beryllium ^a	7.8	2.0	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Cadmium ^a	11.2	6.0	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Calcium ^a	182000	10000	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Chromium ^a	616	20	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Cobalt ^a	120	100	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Copper ^a	607	20	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Iron ^a	269000	200	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Lead ^b	1100	30	ug/l	5	07/08/22	07/11/22	ND SW846 6010D ³	SW846 3010A ⁴
Magnesium ^a	108000	10000	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Manganese ^a	3520	30	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Mercury ^c	< 1.2	1.2	ug/l	1	07/11/22	07/11/22	LM SW846 7470A ¹	SW846 7470A ⁵
Nickel ^a	376	20	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Potassium ^a	20500	20000	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Selenium ^b	< 100	100	ug/l	5	07/08/22	07/11/22	ND SW846 6010D ³	SW846 3010A ⁴
Silver ^a	< 20	20	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Sodium ^a	62900	20000	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Thallium ^a	< 20	20	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Vanadium ^a	348	100	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴
Zinc ^a	1400	40	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁴

(1) Instrument QC Batch: MA52700

(2) Instrument QC Batch: MA52704

(3) Instrument QC Batch: MA52711

(4) Prep QC Batch: MP33950

(5) Prep QC Batch: MP34003

(a) Elevated sample detection limit due to difficult sample matrix.

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

(c) Elevated sample detection limit due to limited volume.

RL = Reporting Limit

Report of Analysis

Client Sample ID: TW-4	Date Sampled: 07/06/22
Lab Sample ID: JD47860-2	Date Received: 07/06/22
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: 4th 83rd Street, Pelham, NY	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	07/11/22 15:27	BR	EPA 335.4/LACHAT

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TW-7	Date Sampled:	07/06/22
Lab Sample ID:	JD47860-3	Date Received:	07/06/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	4th 83rd Street, Pelham, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2A218309.D	1	07/08/22 20:19	NH	n/a	n/a	V2A9490
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

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

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TW-7	Date Sampled:	07/06/22
Lab Sample ID:	JD47860-3	Date Received:	07/06/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	4th 83rd Street, Pelham, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	P150512.D	1	07/10/22 19:22	KLS	07/09/22 15:40	OP40689	EP6960

Run #1	Initial Volume	Final Volume
Run #2	1000 ml	1.0 ml

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	5.0	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.89	ug/l	
	3&4-Methylphenol	ND	2.0	0.88	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol ^a	ND	4.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
98-86-2	Acetophenone	ND	2.0	0.21	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
1912-24-9	Atrazine	ND	2.0	0.45	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.21	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
86-74-8	Carbazole	ND	1.0	0.23	ug/l	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TW-7	Date Sampled:	07/06/22
Lab Sample ID:	JD47860-3	Date Received:	07/06/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	4th 83rd Street, Pelham, NY		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.0	0.65	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene ^a	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.39	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.44	ug/l	
91-20-3	Naphthalene	0.23	1.0	0.23	ug/l	J
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.37	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	10%		10-71%
4165-62-2	Phenol-d5	7% ^b		10-58%

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TW-7 Lab Sample ID: JD47860-3 Matrix: AQ - Ground Water Method: SW846 8270E SW846 3510C Project: 4th 83rd Street, Pelham, NY	Date Sampled: 07/06/22 Date Received: 07/06/22 Percent Solids: n/a
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	22%		22-144%
4165-60-0	Nitrobenzene-d5	27% ^b		28-118%
321-60-8	2-Fluorobiphenyl	27% ^b		34-116%
1718-51-0	Terphenyl-d14	19%		10-127%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Internal standard added for SIM test	4.48	4.1	ug/l	J
143-07-7	Dodecanoic acid	6.90	11	ug/l	JN
	Internal standard added for SIM test	7.18	4.5	ug/l	J
	Internal standard added for SIM test	10.49	4.6	ug/l	J
	Internal standard added for SIM test	16.48	4.7	ug/l	J
	Total TIC, Semi-Volatile		11	ug/l	J

- (a) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- (b) Outside of in house control limits.

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

4.4
4

Report of Analysis

Client Sample ID: TW-7 Lab Sample ID: JD47860-3 Matrix: AQ - Ground Water Method: SW846 8270E BY SIM SW846 3510C Project: 4th 83rd Street, Pelham, NY	Date Sampled: 07/06/22 Date Received: 07/06/22 Percent Solids: n/a
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M109721.D	1	07/10/22 15:35	KLS	07/09/22 15:40	OP40689A	E4M5103
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.10	0.050	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
4165-60-0	Nitrobenzene-d5	22% ^a		23-127%		
321-60-8	2-Fluorobiphenyl	27%		23-114%		
1718-51-0	Terphenyl-d14	17%		10-121%		

(a) Outside of in house control limits.

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

4.4
4

Report of Analysis

Client Sample ID:	TW-7	Date Sampled:	07/06/22
Lab Sample ID:	JD47860-3	Date Received:	07/06/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8081B SW846 3510C		
Project:	4th 83rd Street, Pelham, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G177934.D	1	07/11/22 19:28	TL	07/08/22 09:50	OP40684	G1G6174
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1040 ml	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0048	0.0025	ug/l	
319-84-6	alpha-BHC	ND	0.0048	0.0025	ug/l	
319-85-7	beta-BHC	ND	0.0048	0.0038	ug/l	
319-86-8	delta-BHC	ND	0.0048	0.0032	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0048	0.0029	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0048	0.0024	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0048	0.0020	ug/l	
60-57-1	Dieldrin	ND	0.0048	0.0037	ug/l	
72-54-8	4,4'-DDD	ND	0.0048	0.0028	ug/l	
72-55-9	4,4'-DDE	ND	0.0048	0.0024	ug/l	
50-29-3	4,4'-DDT	0.0098	0.0048	0.0033	ug/l	B
72-20-8	Endrin	ND	0.0048	0.0029	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0048	0.0026	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0048	0.0032	ug/l	
53494-70-5	Endrin ketone	ND	0.0048	0.0030	ug/l	
959-98-8	Endosulfan-I	ND	0.0048	0.0025	ug/l	
33213-65-9	Endosulfan-II	ND	0.0048	0.0023	ug/l	
76-44-8	Heptachlor	ND	0.0048	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0048	0.0029	ug/l	
72-43-5	Methoxychlor	ND	0.0096	0.0032	ug/l	
8001-35-2	Toxaphene	ND	0.12	0.078	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		10-190%
877-09-8	Tetrachloro-m-xylene	87%		10-190%
2051-24-3	Decachlorobiphenyl	12%		10-156%
2051-24-3	Decachlorobiphenyl	9% ^a		10-156%

(a) Outside of in house control limits.

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

Report of Analysis

Client Sample ID: TW-7 Lab Sample ID: JD47860-3 Matrix: AQ - Ground Water Method: SW846 8082A SW846 3510C Project: 4th 83rd Street, Pelham, NY	Date Sampled: 07/06/22 Date Received: 07/06/22 Percent Solids: n/a
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2484431.D	1	07/11/22 08:13	TL	07/08/22 09:50	OP40685	GXX7852
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1040 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.24	0.094	ug/l	
11104-28-2	Aroclor 1221	ND	0.24	0.20	ug/l	
11141-16-5	Aroclor 1232	ND	0.24	0.12	ug/l	
53469-21-9	Aroclor 1242	ND	0.24	0.11	ug/l	
12672-29-6	Aroclor 1248	ND	0.24	0.061	ug/l	
11097-69-1	Aroclor 1254	ND	0.24	0.20	ug/l	
11096-82-5	Aroclor 1260	ND	0.24	0.073	ug/l	
11100-14-4	Aroclor 1268	ND	0.24	0.083	ug/l	
37324-23-5	Aroclor 1262	ND	0.24	0.093	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		10-174%
877-09-8	Tetrachloro-m-xylene	108%		10-174%
2051-24-3	Decachlorobiphenyl	8% ^a		10-151%
2051-24-3	Decachlorobiphenyl	11%		10-151%

(a) Outside of in house control limits.

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

Report of Analysis

Client Sample ID:	TW-7	Date Sampled:	07/06/22
Lab Sample ID:	JD47860-3	Date Received:	07/06/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	4th 83rd Street, Pelham, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	85700	200	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁵
Antimony	< 6.0	6.0	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁵
Arsenic ^a	31.2	15	ug/l	5	07/08/22	07/11/22	ND SW846 6010D ³	SW846 3010A ⁵
Barium	698	200	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁵
Beryllium	4.3	1.0	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁵
Cadmium	5.4	3.0	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁵
Calcium	74100	5000	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁵
Chromium	286	10	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁵
Cobalt	59.9	50	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁵
Copper	328	10	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁵
Iron	120000	100	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁵
Lead ^a	78.0	15	ug/l	5	07/08/22	07/11/22	ND SW846 6010D ³	SW846 3010A ⁵
Magnesium	32900	5000	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁵
Manganese	929	15	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁵
Mercury ^b	< 1.2	1.2	ug/l	1	07/11/22	07/11/22	LM SW846 7470A ¹	SW846 7470A ⁶
Nickel	228	10	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁵
Potassium	21700	10000	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁵
Selenium ^a	50.6	50	ug/l	5	07/08/22	07/11/22	ND SW846 6010D ³	SW846 3010A ⁵
Silver	10.0	10	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁵
Sodium	1030000	100000	ug/l	10	07/08/22	07/12/22	ND SW846 6010D ⁴	SW846 3010A ⁵
Thallium	< 10	10	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁵
Vanadium	324	50	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁵
Zinc	336	20	ug/l	1	07/08/22	07/08/22	ND SW846 6010D ²	SW846 3010A ⁵

(1) Instrument QC Batch: MA52700

(2) Instrument QC Batch: MA52704

(3) Instrument QC Batch: MA52711

(4) Instrument QC Batch: MA52714

(5) Prep QC Batch: MP33950

(6) Prep QC Batch: MP34003

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

(b) Elevated sample detection limit due to limited volume.

RL = Reporting Limit

Report of Analysis

Client Sample ID: TW-7	Date Sampled: 07/06/22
Lab Sample ID: JD47860-3	Date Received: 07/06/22
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: 4th 83rd Street, Pelham, NY	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	07/11/22 15:25	BR	EPA 335.4/LACHAT

RL = Reporting Limit

4.4
4

Report of Analysis

Client Sample ID:	TW-7	Date Sampled:	07/06/22
Lab Sample ID:	JD47860-3A	Date Received:	07/06/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 537M BY ID EPA 537 MOD		
Project:	4th 83rd Street, Pelham, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Q92230.D	1	07/23/22 20:02	AFL	07/16/22 09:00	F:OP92114	F:SQ1992
Run #2 ^b	Q92269.D	5	07/25/22 17:20	AFL	07/16/22 09:00	F:OP92114	F:SQ1993

Run #	Initial Volume	Final Volume
Run #1	255 ml	1.0 ml
Run #2	255 ml	1.0 ml

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	6.7	3.9	2.0	ng/l	
2706-90-3	Perfluoropentanoic acid	8.9	2.0	0.98	ng/l	
307-24-4	Perfluorohexanoic acid	5.7	2.0	0.98	ng/l	
375-85-9	Perfluoroheptanoic acid	3.6	2.0	0.98	ng/l	
335-67-1	Perfluorooctanoic acid	8.2	2.0	0.98	ng/l	
375-95-1	Perfluorononanoic acid	3.2	2.0	0.98	ng/l	
335-76-2	Perfluorodecanoic acid	5.2	2.0	0.98	ng/l	
2058-94-8	Perfluoroundecanoic acid	ND ^c	9.8	4.9	ng/l	
307-55-1	Perfluorododecanoic acid	ND ^c	9.8	4.9	ng/l	
72629-94-8	Perfluorotridecanoic acid	ND ^c	9.8	4.9	ng/l	
376-06-7	Perfluorotetradecanoic acid	ND	2.0	0.98	ng/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	7.3	2.0	0.98	ng/l	
355-46-4	Perfluorohexanesulfonic acid	1.0	2.0	0.98	ng/l	J
375-92-8	Perfluoroheptanesulfonic acid	ND	2.0	0.98	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	18.5	2.0	0.98	ng/l	
335-77-3	Perfluorodecanesulfonic acid	ND ^c	9.8	4.9	ng/l	
PERFLUOROOCETANESULFONAMIDES						
754-91-6	PFOSA	ND	3.9	2.0	ng/l	
PERFLUOROOCETANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	3.9	2.0	ng/l	
2991-50-6	EtFOSAA	ND	3.9	2.0	ng/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	7.8	2.0	ng/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	7.8	2.0	ng/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TW-7		Date Sampled: 07/06/22
Lab Sample ID: JD47860-3A		Date Received: 07/06/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 537M BY ID EPA 537 MOD		
Project: 4th 83rd Street, Pelham, NY		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	72%	75%	35-135%
	13C5-PFPeA	77%	94%	50-150%
	13C5-PFHxA	72%	92%	50-150%
	13C4-PFHpA	73%	101%	50-150%
	13C8-PFOA	74%	95%	50-150%
	13C9-PFNA	75%	92%	50-150%
	13C6-PFDA	72%	85%	50-150%
	13C7-PFUnDA	23% ^d	69%	40-140%
	13C2-PFDoDA	15% ^d	64%	40-140%
	13C2-PFTeDA	44%	35%	30-130%
	13C3-PFBS	81%	106%	50-150%
	13C3-PFHxS	77%	107%	50-150%
	13C8-PFOS	81%	121%	50-150%
	13C8-FOSA	33%	88%	30-130%
	d3-MeFOSAA	96%	107%	40-140%
	d5-EtFOSAA	57%	102%	40-140%
	13C2-6:2FTS	84%	108%	50-150%
	13C2-8:2FTS	85%	86%	50-150%

- (a) Analysis performed at SGS Orlando, FL.
- (b) Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- (c) Result is from Run# 2
- (d) Outside control limits.

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

4.5
4

Report of Analysis

Client Sample ID: TB 20220706	Date Sampled: 07/06/22
Lab Sample ID: JD47860-4	Date Received: 07/06/22
Matrix: AQ - Trip Blank Water	Percent Solids: n/a
Method: SW846 8260D	
Project: 4th 83rd Street, Pelham, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A218304.D	1	07/08/22 17:55	NH	n/a	n/a	V2A9490
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

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

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TB 20220706		Date Sampled: 07/06/22
Lab Sample ID: JD47860-4		Date Received: 07/06/22
Matrix: AQ - Trip Blank Water		Percent Solids: n/a
Method: SW846 8260D		
Project: 4th 83rd Street, Pelham, NY		

VOA TCL List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	89%		80-120%
2037-26-5	Toluene-D8	95%		80-120%
460-00-4	4-Bromofluorobenzene	95%		82-114%

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

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

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

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

4.6
4

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Chain of Custody (SGS Orlando, FL)

SGS Sample Receipt Summary

Job Number: JD47860

Client: SESI CONSULTING ENGINEERS

Project: 12335 PHASE 4

Date / Time Received: 7/6/2022 6:04:00 PM

Delivery Method: _____

Airbill #'s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (4.6);

Cooler Temps (Corrected) °C: Cooler 1: (4.3);

<u>Cooler Security</u>	<u>Y or N</u>		<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Cooler temp verification:	<u>IR Gun</u>
3. Cooler media:	<u>Ice (Bag)</u>
4. No. Coolers:	<u>1</u>

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:			<u>Intact</u>

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify) _____

Comments

- 1). Sample -1 Only received 1x 950ml NP amber bottle for extraction analyses. Please confirm.
 2). Sample -2 Only received 3 x950mL NP amber bottle, 3x 40ml HCL vials for all anlysis requested on COC. Please confirm

5.1
5

JD47860: Chain of Custody

Page 2 of 3

Responded to by: Kelly Ramos

Response Date: 7/7/2022

-1: please note limited volume for SVOC. Run for AB8270TCL20-14DX, B8270SIM14DIOX, BLS, XMTALCN, V8260TCL20+, LCID537NY21 (no PEST/PCB)
-2: SM aliquot 250ml and preserve with HNO3 from one of the 3 liters for metals. Aliquot and preserve for CN from the same liter bottle!. Run for AB8270TCL20-14DX, B8270SIM14DIOX, BLS, XMTALCN, V8260TCL20+, XPPTCL11 (no PFAS). Note limited volume for SVOC and Pest/PCB (1L each!)

JD47860: Chain of Custody

Page 3 of 3

SGS Sample Receipt Summary

Job Number: JD47860

Client: SGS NJ

Project: 4TH 83RD STREET

Date / Time Received: 7/8/2022 9:30:00 AM

Delivery Method: FEDEX

Airbill #s: _____

Therm ID: IR 1;

Therm CF: 0.4;

of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (0.4);

Cooler Temps (Corrected) °C: Cooler 1: (0.8);

Cooler Information

Y or N

- | | | |
|-----------------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Temp criteria achieved | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Cooler temp verification | <u>IR Gun</u> | |
| 5. Cooler media | <u>Ice (Bag)</u> | |

Sample Information

Y or N N/A

- | | | | |
|-----------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Sample labels present on bottles | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Samples preserved properly | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3. Sufficient volume/containers recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Condition of sample | <u>Intact</u> | | |
| 5. Sample recvd within HT | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 6. Dates/Times/IDs on COC match Sample Label | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 7. VOCs have headspace | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 9. Compositing instructions clear | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10. Voa Soil Kits/Jars received past 48hrs? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11. % Solids Jar received? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12. Residual Chlorine Present? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Trip Blank Information

Y or N N/A

- | | | | |
|--------------------------------|--------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

W or S N/A

- | | | | |
|------------------------|--------------------------|--------------------------|-------------------------------------|
| 3. Type Of TB Received | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|------------------------|--------------------------|--------------------------|-------------------------------------|

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____

Number of 5035 Field Kits: _____

Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315

pH 10-12 219813A

Other: (Specify) _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: SAMUELM

Date: 7/8/2022 9:30:00 AM

Reviewer: _____

Date: _____

JD47860: Chain of Custody

Page 2 of 2