

Remedial Investigation Report
410 West 207th Street, Manhattan, New York
NYC OER Site Numbers 19TMP1823M and 19TMP1138M

APPENDIX D

Laboratory Data Deliverables

ANALYTICAL REPORT

Job Number: 200-44645-1
SDG Number: 200-44645-1
Job Description: Taconic Inwood

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, NY 11749
Attention: Mr. Ronald Lombino



Approved for release.
Lori T Arnold
Manager of Project Management
8/9/2018 3:05 PM

Designee for
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08/09/2018

cc: Mr. Levi Curnutte
Ms. Jessica Taylor

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

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Definitions/Glossary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 200-44645-1
SDG: 200-44645-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: Taconic Inwood

Report Number: 200-44645-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

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

RECEIPT

The samples were received on 08/03/2018; the samples arrived in good condition, except for sample, V-1.

During the canister pressure check performed upon receipt, it was observed that the sample, V-1 was received at an elevated residual vacuum of 28.6"hg. The associated flow controller was evaluated upon receipt and was found to be completely clogged with water. There was insufficient volume of sample in the canister for the laboratory to perform an analysis on this sample.

During the canister pressure check performed upon receipt, it was observed that the sample, V-2 was received at an elevated residual vacuum of -12.0. The associated flow controller was evaluated upon receipt and was found to be within the acceptable flow range as compared to the original set flow rate.

VOLATILE ORGANIC COMPOUNDS

Samples V-2, V-3, V-4 and V-5 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 08/06/2018 and 08/07/2018.

The continuing calibration verification (CCV) associated with batch 200-132552 recovered above the upper control limit for n-Butylbenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Samples V-2[17.8X], V-3[11484X], V-4[2.99X] and V-5[14X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 200-44645-1
SDG: 200-44645-1

Client Sample ID: V-2

Lab Sample ID: 200-44645-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	53		8.9	5.5	ppb v/v	17.8		TO-15	Total/NA
Carbon disulfide	5.8	J	8.9	2.1	ppb v/v	17.8		TO-15	Total/NA
n-Hexane	25		3.6	2.8	ppb v/v	17.8		TO-15	Total/NA
Methyl Ethyl Ketone	7.0	J	8.9	3.6	ppb v/v	17.8		TO-15	Total/NA
Chloroform	6.1		3.6	0.93	ppb v/v	17.8		TO-15	Total/NA
Cyclohexane	8.3		3.6	1.1	ppb v/v	17.8		TO-15	Total/NA
2,2,4-Trimethylpentane	560		3.6	1.6	ppb v/v	17.8		TO-15	Total/NA
Benzene	7.1		3.6	1.3	ppb v/v	17.8		TO-15	Total/NA
n-Heptane	25		3.6	2.5	ppb v/v	17.8		TO-15	Total/NA
Toluene	430		3.6	1.2	ppb v/v	17.8		TO-15	Total/NA
Tetrachloroethene	6.9		3.6	0.52	ppb v/v	17.8		TO-15	Total/NA
Ethylbenzene	2.4	J	3.6	1.3	ppb v/v	17.8		TO-15	Total/NA
m,p-Xylene	5.0	J	8.9	1.2	ppb v/v	17.8		TO-15	Total/NA
Xylene, o-	2.0	J	3.6	1.3	ppb v/v	17.8		TO-15	Total/NA
Xylene (total)	7.0	J	12	2.5	ppb v/v	17.8		TO-15	Total/NA
Cumene	3.0	J	3.6	1.1	ppb v/v	17.8		TO-15	Total/NA
n-Propylbenzene	2.8	J	3.6	1.2	ppb v/v	17.8		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	130		21	13	ug/m3	17.8		TO-15	Total/NA
Carbon disulfide	18	J	28	6.7	ug/m3	17.8		TO-15	Total/NA
n-Hexane	87		13	10	ug/m3	17.8		TO-15	Total/NA
Methyl Ethyl Ketone	21	J	26	10	ug/m3	17.8		TO-15	Total/NA
Chloroform	30		17	4.5	ug/m3	17.8		TO-15	Total/NA
Cyclohexane	29		12	3.9	ug/m3	17.8		TO-15	Total/NA
2,2,4-Trimethylpentane	2600		17	7.3	ug/m3	17.8		TO-15	Total/NA
Benzene	23		11	4.0	ug/m3	17.8		TO-15	Total/NA
n-Heptane	100		15	10	ug/m3	17.8		TO-15	Total/NA
Toluene	1600		13	4.6	ug/m3	17.8		TO-15	Total/NA
Tetrachloroethene	47		24	3.5	ug/m3	17.8		TO-15	Total/NA
Ethylbenzene	10	J	15	5.6	ug/m3	17.8		TO-15	Total/NA
m,p-Xylene	22	J	39	5.4	ug/m3	17.8		TO-15	Total/NA
Xylene, o-	8.7	J	15	5.5	ug/m3	17.8		TO-15	Total/NA
Xylene (total)	30	J	54	11	ug/m3	17.8		TO-15	Total/NA
Cumene	15	J	18	5.2	ug/m3	17.8		TO-15	Total/NA
n-Propylbenzene	14	J	18	6.0	ug/m3	17.8		TO-15	Total/NA

Client Sample ID: V-3

Lab Sample ID: 200-44645-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	9900		5700	3600	ppb v/v	11484		TO-15	Total/NA
n-Hexane	5600		2300	1800	ppb v/v	11484		TO-15	Total/NA
Cyclohexane	3300		2300	720	ppb v/v	11484		TO-15	Total/NA
2,2,4-Trimethylpentane	230000		2300	1000	ppb v/v	11484		TO-15	Total/NA
Benzene	1700	J	2300	820	ppb v/v	11484		TO-15	Total/NA
n-Heptane	5900		2300	1600	ppb v/v	11484		TO-15	Total/NA
Cumene	1100	J	2300	680	ppb v/v	11484		TO-15	Total/NA
n-Propylbenzene	920	J	2300	790	ppb v/v	11484		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	24000		14000	8500	ug/m3	11484		TO-15	Total/NA
n-Hexane	20000		8100	6500	ug/m3	11484		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 200-44645-1
SDG: 200-44645-1

Client Sample ID: V-3 (Continued)

Lab Sample ID: 200-44645-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	11000		7900	2500	ug/m3	11484		TO-15	Total/NA
2,2,4-Trimethylpentane	1100000		11000	4700	ug/m3	11484		TO-15	Total/NA
Benzene	5400	J	7300	2600	ug/m3	11484		TO-15	Total/NA
n-Heptane	24000		9400	6600	ug/m3	11484		TO-15	Total/NA
Cumene	5300	J	11000	3300	ug/m3	11484		TO-15	Total/NA
n-Propylbenzene	4500	J	11000	3900	ug/m3	11484		TO-15	Total/NA

Client Sample ID: V-4

Lab Sample ID: 200-44645-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Freon 22	6.8		1.5	0.78	ppb v/v	2.99		TO-15	Total/NA
Chloromethane	0.99	J	1.5	0.75	ppb v/v	2.99		TO-15	Total/NA
n-Butane	38		1.5	0.93	ppb v/v	2.99		TO-15	Total/NA
1,3-Butadiene	0.32	J	0.60	0.19	ppb v/v	2.99		TO-15	Total/NA
Trichlorofluoromethane	3.7		0.60	0.19	ppb v/v	2.99		TO-15	Total/NA
Acetone	19		15	7.8	ppb v/v	2.99		TO-15	Total/NA
Carbon disulfide	14		1.5	0.36	ppb v/v	2.99		TO-15	Total/NA
Methylene Chloride	0.74	J	1.5	0.60	ppb v/v	2.99		TO-15	Total/NA
n-Hexane	3.4		0.60	0.48	ppb v/v	2.99		TO-15	Total/NA
Methyl Ethyl Ketone	1.6		1.5	0.60	ppb v/v	2.99		TO-15	Total/NA
Chloroform	67		0.60	0.16	ppb v/v	2.99		TO-15	Total/NA
Cyclohexane	1.7		0.60	0.19	ppb v/v	2.99		TO-15	Total/NA
Carbon tetrachloride	0.13		0.10	0.072	ppb v/v	2.99		TO-15	Total/NA
2,2,4-Trimethylpentane	97		0.60	0.26	ppb v/v	2.99		TO-15	Total/NA
Benzene	2.2		0.60	0.21	ppb v/v	2.99		TO-15	Total/NA
Trichloroethene	0.21		0.10	0.090	ppb v/v	2.99		TO-15	Total/NA
Methyl methacrylate	11		1.5	0.66	ppb v/v	2.99		TO-15	Total/NA
Bromodichloromethane	14		0.60	0.28	ppb v/v	2.99		TO-15	Total/NA
Toluene	3.6		0.60	0.21	ppb v/v	2.99		TO-15	Total/NA
Tetrachloroethene	0.11	J	0.60	0.087	ppb v/v	2.99		TO-15	Total/NA
Dibromochloromethane	0.96		0.60	0.21	ppb v/v	2.99		TO-15	Total/NA
Chlorobenzene	0.31	J	0.60	0.12	ppb v/v	2.99		TO-15	Total/NA
Ethylbenzene	42		0.60	0.22	ppb v/v	2.99		TO-15	Total/NA
m,p-Xylene	94		1.5	0.21	ppb v/v	2.99		TO-15	Total/NA
Xylene, o-	87		0.60	0.21	ppb v/v	2.99		TO-15	Total/NA
Xylene (total)	180		2.1	0.42	ppb v/v	2.99		TO-15	Total/NA
Styrene	3.0		0.60	0.26	ppb v/v	2.99		TO-15	Total/NA
Cumene	1.4		0.60	0.18	ppb v/v	2.99		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.91		0.60	0.24	ppb v/v	2.99		TO-15	Total/NA
4-Isopropyltoluene	2.7		0.60	0.22	ppb v/v	2.99		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Freon 22	24		5.3	2.7	ug/m3	2.99		TO-15	Total/NA
Chloromethane	2.0	J	3.1	1.5	ug/m3	2.99		TO-15	Total/NA
n-Butane	90		3.6	2.2	ug/m3	2.99		TO-15	Total/NA
1,3-Butadiene	0.71	J	1.3	0.43	ug/m3	2.99		TO-15	Total/NA
Trichlorofluoromethane	21		3.4	1.0	ug/m3	2.99		TO-15	Total/NA
Acetone	46		36	18	ug/m3	2.99		TO-15	Total/NA
Carbon disulfide	42		4.7	1.1	ug/m3	2.99		TO-15	Total/NA
Methylene Chloride	2.6	J	5.2	2.1	ug/m3	2.99		TO-15	Total/NA
n-Hexane	12		2.1	1.7	ug/m3	2.99		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 200-44645-1
SDG: 200-44645-1

Client Sample ID: V-4 (Continued)

Lab Sample ID: 200-44645-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Ethyl Ketone	4.7		4.4	1.8	ug/m3	2.99		TO-15	Total/NA
Chloroform	320		2.9	0.76	ug/m3	2.99		TO-15	Total/NA
Cyclohexane	5.7		2.1	0.65	ug/m3	2.99		TO-15	Total/NA
Carbon tetrachloride	0.84		0.66	0.45	ug/m3	2.99		TO-15	Total/NA
2,2,4-Trimethylpentane	460		2.8	1.2	ug/m3	2.99		TO-15	Total/NA
Benzene	7.0		1.9	0.68	ug/m3	2.99		TO-15	Total/NA
Trichloroethene	1.2		0.56	0.48	ug/m3	2.99		TO-15	Total/NA
Methyl methacrylate	44		6.1	2.7	ug/m3	2.99		TO-15	Total/NA
Bromodichloromethane	93		4.0	1.9	ug/m3	2.99		TO-15	Total/NA
Toluene	14		2.3	0.78	ug/m3	2.99		TO-15	Total/NA
Tetrachloroethene	0.75	J	4.1	0.59	ug/m3	2.99		TO-15	Total/NA
Dibromochloromethane	8.2		5.1	1.8	ug/m3	2.99		TO-15	Total/NA
Chlorobenzene	1.4	J	2.8	0.55	ug/m3	2.99		TO-15	Total/NA
Ethylbenzene	180		2.6	0.95	ug/m3	2.99		TO-15	Total/NA
m,p-Xylene	410		6.5	0.91	ug/m3	2.99		TO-15	Total/NA
Xylene, o-	380		2.6	0.92	ug/m3	2.99		TO-15	Total/NA
Xylene (total)	790		9.1	1.8	ug/m3	2.99		TO-15	Total/NA
Styrene	13		2.5	1.1	ug/m3	2.99		TO-15	Total/NA
Cumene	6.8		2.9	0.87	ug/m3	2.99		TO-15	Total/NA
1,2,4-Trimethylbenzene	4.5		2.9	1.2	ug/m3	2.99		TO-15	Total/NA
4-Isopropyltoluene	15		3.3	1.2	ug/m3	2.99		TO-15	Total/NA

Client Sample ID: V-5

Lab Sample ID: 200-44645-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	73		7.0	4.3	ppb v/v	14		TO-15	Total/NA
1,3-Butadiene	5.8		2.8	0.91	ppb v/v	14		TO-15	Total/NA
Carbon disulfide	6.7	J	7.0	1.7	ppb v/v	14		TO-15	Total/NA
n-Hexane	24		2.8	2.2	ppb v/v	14		TO-15	Total/NA
Methyl Ethyl Ketone	3.6	J	7.0	2.8	ppb v/v	14		TO-15	Total/NA
Chloroform	5.5		2.8	0.73	ppb v/v	14		TO-15	Total/NA
1,1,1-Trichloroethane	1.1	J	2.8	0.95	ppb v/v	14		TO-15	Total/NA
Cyclohexane	4.1		2.8	0.88	ppb v/v	14		TO-15	Total/NA
2,2,4-Trimethylpentane	8.4		2.8	1.2	ppb v/v	14		TO-15	Total/NA
Benzene	2.7	J	2.8	0.99	ppb v/v	14		TO-15	Total/NA
n-Heptane	39		2.8	2.0	ppb v/v	14		TO-15	Total/NA
Toluene	350		2.8	0.97	ppb v/v	14		TO-15	Total/NA
Tetrachloroethene	3.8		2.8	0.41	ppb v/v	14		TO-15	Total/NA
m,p-Xylene	1.1	J	7.0	0.98	ppb v/v	14		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	170		17	10	ug/m3	14		TO-15	Total/NA
1,3-Butadiene	13		6.2	2.0	ug/m3	14		TO-15	Total/NA
Carbon disulfide	21	J	22	5.2	ug/m3	14		TO-15	Total/NA
n-Hexane	84		9.9	7.9	ug/m3	14		TO-15	Total/NA
Methyl Ethyl Ketone	11	J	21	8.3	ug/m3	14		TO-15	Total/NA
Chloroform	27		14	3.6	ug/m3	14		TO-15	Total/NA
1,1,1-Trichloroethane	6.0	J	15	5.2	ug/m3	14		TO-15	Total/NA
Cyclohexane	14		9.6	3.0	ug/m3	14		TO-15	Total/NA
2,2,4-Trimethylpentane	39		13	5.8	ug/m3	14		TO-15	Total/NA
Benzene	8.6	J	8.9	3.2	ug/m3	14		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 200-44645-1
SDG: 200-44645-1

Client Sample ID: V-5 (Continued)

Lab Sample ID: 200-44645-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Heptane	160		11	8.0	ug/m3	14		TO-15	Total/NA
Toluene	1300		11	3.6	ug/m3	14		TO-15	Total/NA
Tetrachloroethene	26		19	2.8	ug/m3	14		TO-15	Total/NA
m,p-Xylene	4.9	J	30	4.3	ug/m3	14		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 200-44645-1
SDG: 200-44645-1

Client Sample ID: V-2

Date Collected: 08/02/18 11:12

Date Received: 08/03/18 10:10

Sample Container: Summa Canister 6L

Lab Sample ID: 200-44645-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	8.9	U	8.9	3.6	ppb v/v			08/06/18 17:12	17.8
Freon 22	8.9	U	8.9	4.6	ppb v/v			08/06/18 17:12	17.8
1,2-Dichlorotetrafluoroethane	3.6	U	3.6	1.2	ppb v/v			08/06/18 17:12	17.8
Chloromethane	8.9	U	8.9	4.5	ppb v/v			08/06/18 17:12	17.8
n-Butane	53		8.9	5.5	ppb v/v			08/06/18 17:12	17.8
Vinyl chloride	0.62	U	0.62	0.73	ppb v/v			08/06/18 17:12	17.8
1,3-Butadiene	3.6	U	3.6	1.2	ppb v/v			08/06/18 17:12	17.8
Bromomethane	3.6	U	3.6	1.1	ppb v/v			08/06/18 17:12	17.8
Chloroethane	8.9	U	8.9	3.7	ppb v/v			08/06/18 17:12	17.8
Bromoethene(Vinyl Bromide)	3.6	U	3.6	1.0	ppb v/v			08/06/18 17:12	17.8
Trichlorofluoromethane	3.6	U	3.6	1.1	ppb v/v			08/06/18 17:12	17.8
Freon TF	3.6	U	3.6	0.55	ppb v/v			08/06/18 17:12	17.8
1,1-Dichloroethene	0.62	U	0.62	0.61	ppb v/v			08/06/18 17:12	17.8
Acetone	89	U	89	46	ppb v/v			08/06/18 17:12	17.8
Isopropyl alcohol	89	U	89	32	ppb v/v			08/06/18 17:12	17.8
Carbon disulfide	5.8	J	8.9	2.1	ppb v/v			08/06/18 17:12	17.8
3-Chloropropene	8.9	U	8.9	4.8	ppb v/v			08/06/18 17:12	17.8
Methylene Chloride	8.9	U	8.9	3.6	ppb v/v			08/06/18 17:12	17.8
tert-Butyl alcohol	89	U	89	27	ppb v/v			08/06/18 17:12	17.8
Methyl tert-butyl ether	3.6	U	3.6	1.1	ppb v/v			08/06/18 17:12	17.8
trans-1,2-Dichloroethene	3.6	U	3.6	1.3	ppb v/v			08/06/18 17:12	17.8
n-Hexane	25		3.6	2.8	ppb v/v			08/06/18 17:12	17.8
1,1-Dichloroethane	3.6	U	3.6	0.46	ppb v/v			08/06/18 17:12	17.8
Methyl Ethyl Ketone	7.0	J	8.9	3.6	ppb v/v			08/06/18 17:12	17.8
cis-1,2-Dichloroethene	0.62	U	0.62	0.66	ppb v/v			08/06/18 17:12	17.8
1,2-Dichloroethene, Total	7.1	U	7.1	2.0	ppb v/v			08/06/18 17:12	17.8
Chloroform	6.1		3.6	0.93	ppb v/v			08/06/18 17:12	17.8
Tetrahydrofuran	89	U	89	46	ppb v/v			08/06/18 17:12	17.8
1,1,1-Trichloroethane	3.6	U	3.6	1.2	ppb v/v			08/06/18 17:12	17.8
Cyclohexane	8.3		3.6	1.1	ppb v/v			08/06/18 17:12	17.8
Carbon tetrachloride	0.62	U	0.62	0.43	ppb v/v			08/06/18 17:12	17.8
2,2,4-Trimethylpentane	560		3.6	1.6	ppb v/v			08/06/18 17:12	17.8
Benzene	7.1		3.6	1.3	ppb v/v			08/06/18 17:12	17.8
1,2-Dichloroethane	3.6	U	3.6	1.1	ppb v/v			08/06/18 17:12	17.8
n-Heptane	25		3.6	2.5	ppb v/v			08/06/18 17:12	17.8
Trichloroethene	0.62	U	0.62	0.53	ppb v/v			08/06/18 17:12	17.8
Methyl methacrylate	8.9	U	8.9	3.9	ppb v/v			08/06/18 17:12	17.8
1,2-Dichloropropane	3.6	U	3.6	2.1	ppb v/v			08/06/18 17:12	17.8
1,4-Dioxane	89	U	89	23	ppb v/v			08/06/18 17:12	17.8
Bromodichloromethane	3.6	U	3.6	1.7	ppb v/v			08/06/18 17:12	17.8
cis-1,3-Dichloropropene	3.6	U	3.6	1.7	ppb v/v			08/06/18 17:12	17.8
methyl isobutyl ketone	8.9	U	8.9	6.4	ppb v/v			08/06/18 17:12	17.8
Toluene	430		3.6	1.2	ppb v/v			08/06/18 17:12	17.8
trans-1,3-Dichloropropene	3.6	U	3.6	2.1	ppb v/v			08/06/18 17:12	17.8
1,1,2-Trichloroethane	3.6	U	3.6	1.4	ppb v/v			08/06/18 17:12	17.8
Tetrachloroethene	6.9		3.6	0.52	ppb v/v			08/06/18 17:12	17.8
Methyl Butyl Ketone (2-Hexanone)	8.9	U	8.9	7.5	ppb v/v			08/06/18 17:12	17.8
Dibromochloromethane	3.6	U	3.6	1.3	ppb v/v			08/06/18 17:12	17.8

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 200-44645-1
SDG: 200-44645-1

Client Sample ID: V-2

Date Collected: 08/02/18 11:12

Date Received: 08/03/18 10:10

Sample Container: Summa Canister 6L

Lab Sample ID: 200-44645-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	3.6	U	3.6	1.2	ppb v/v			08/06/18 17:12	17.8
Chlorobenzene	3.6	U	3.6	0.71	ppb v/v			08/06/18 17:12	17.8
Ethylbenzene	2.4	J	3.6	1.3	ppb v/v			08/06/18 17:12	17.8
m,p-Xylene	5.0	J	8.9	1.2	ppb v/v			08/06/18 17:12	17.8
Xylene, o-	2.0	J	3.6	1.3	ppb v/v			08/06/18 17:12	17.8
Xylene (total)	7.0	J	12	2.5	ppb v/v			08/06/18 17:12	17.8
Styrene	3.6	U	3.6	1.5	ppb v/v			08/06/18 17:12	17.8
Bromoform	3.6	U	3.6	1.5	ppb v/v			08/06/18 17:12	17.8
Cumene	3.0	J	3.6	1.1	ppb v/v			08/06/18 17:12	17.8
1,1,2,2-Tetrachloroethane	3.6	U	3.6	1.4	ppb v/v			08/06/18 17:12	17.8
n-Propylbenzene	2.8	J	3.6	1.2	ppb v/v			08/06/18 17:12	17.8
4-Ethyltoluene	3.6	U	3.6	1.2	ppb v/v			08/06/18 17:12	17.8
1,3,5-Trimethylbenzene	3.6	U	3.6	1.0	ppb v/v			08/06/18 17:12	17.8
2-Chlorotoluene	3.6	U	3.6	1.3	ppb v/v			08/06/18 17:12	17.8
tert-Butylbenzene	3.6	U	3.6	1.0	ppb v/v			08/06/18 17:12	17.8
1,2,4-Trimethylbenzene	3.6	U	3.6	1.4	ppb v/v			08/06/18 17:12	17.8
sec-Butylbenzene	3.6	U	3.6	1.2	ppb v/v			08/06/18 17:12	17.8
4-Isopropyltoluene	3.6	U	3.6	1.3	ppb v/v			08/06/18 17:12	17.8
1,3-Dichlorobenzene	3.6	U	3.6	1.5	ppb v/v			08/06/18 17:12	17.8
1,4-Dichlorobenzene	3.6	U	3.6	1.2	ppb v/v			08/06/18 17:12	17.8
Benzyl chloride	3.6	U	3.6	2.1	ppb v/v			08/06/18 17:12	17.8
n-Butylbenzene	3.6	U	3.6	1.4	ppb v/v			08/06/18 17:12	17.8
1,2-Dichlorobenzene	3.6	U	3.6	1.3	ppb v/v			08/06/18 17:12	17.8
1,2,4-Trichlorobenzene	8.9	U	8.9	4.3	ppb v/v			08/06/18 17:12	17.8
Hexachlorobutadiene	3.6	U	3.6	1.5	ppb v/v			08/06/18 17:12	17.8
Naphthalene	8.9	U	8.9	5.5	ppb v/v			08/06/18 17:12	17.8
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	44	U	44	18	ug/m3			08/06/18 17:12	17.8
Freon 22	31	U	31	16	ug/m3			08/06/18 17:12	17.8
1,2-Dichlorotetrafluoroethane	25	U	25	8.5	ug/m3			08/06/18 17:12	17.8
Chloromethane	18	U	18	9.2	ug/m3			08/06/18 17:12	17.8
n-Butane	130		21	13	ug/m3			08/06/18 17:12	17.8
Vinyl chloride	1.6	U	1.6	1.9	ug/m3			08/06/18 17:12	17.8
1,3-Butadiene	7.9	U	7.9	2.6	ug/m3			08/06/18 17:12	17.8
Bromomethane	14	U	14	4.3	ug/m3			08/06/18 17:12	17.8
Chloroethane	23	U	23	9.9	ug/m3			08/06/18 17:12	17.8
Bromoethene(Vinyl Bromide)	16	U	16	4.4	ug/m3			08/06/18 17:12	17.8
Trichlorofluoromethane	20	U	20	6.2	ug/m3			08/06/18 17:12	17.8
Freon TF	27	U	27	4.2	ug/m3			08/06/18 17:12	17.8
1,1-Dichloroethene	2.5	U	2.5	2.4	ug/m3			08/06/18 17:12	17.8
Acetone	210	U	210	110	ug/m3			08/06/18 17:12	17.8
Isopropyl alcohol	220	U	220	79	ug/m3			08/06/18 17:12	17.8
Carbon disulfide	18	J	28	6.7	ug/m3			08/06/18 17:12	17.8
3-Chloropropene	28	U	28	15	ug/m3			08/06/18 17:12	17.8
Methylene Chloride	31	U	31	12	ug/m3			08/06/18 17:12	17.8
tert-Butyl alcohol	270	U	270	81	ug/m3			08/06/18 17:12	17.8
Methyl tert-butyl ether	13	U	13	3.9	ug/m3			08/06/18 17:12	17.8
trans-1,2-Dichloroethene	14	U	14	5.2	ug/m3			08/06/18 17:12	17.8

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 200-44645-1
SDG: 200-44645-1

Client Sample ID: V-2

Date Collected: 08/02/18 11:12

Date Received: 08/03/18 10:10

Sample Container: Summa Canister 6L

Lab Sample ID: 200-44645-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Hexane	87		13	10	ug/m3			08/06/18 17:12	17.8
1,1-Dichloroethane	14	U	14	1.9	ug/m3			08/06/18 17:12	17.8
Methyl Ethyl Ketone	21	J	26	10	ug/m3			08/06/18 17:12	17.8
cis-1,2-Dichloroethene	2.5	U	2.5	2.6	ug/m3			08/06/18 17:12	17.8
1,2-Dichloroethene, Total	28	U	28	7.8	ug/m3			08/06/18 17:12	17.8
Chloroform	30		17	4.5	ug/m3			08/06/18 17:12	17.8
Tetrahydrofuran	260	U	260	140	ug/m3			08/06/18 17:12	17.8
1,1,1-Trichloroethane	19	U	19	6.6	ug/m3			08/06/18 17:12	17.8
Cyclohexane	29		12	3.9	ug/m3			08/06/18 17:12	17.8
Carbon tetrachloride	3.9	U	3.9	2.7	ug/m3			08/06/18 17:12	17.8
2,2,4-Trimethylpentane	2600		17	7.3	ug/m3			08/06/18 17:12	17.8
Benzene	23		11	4.0	ug/m3			08/06/18 17:12	17.8
1,2-Dichloroethane	14	U	14	4.5	ug/m3			08/06/18 17:12	17.8
n-Heptane	100		15	10	ug/m3			08/06/18 17:12	17.8
Trichloroethene	3.3	U	3.3	2.9	ug/m3			08/06/18 17:12	17.8
Methyl methacrylate	36	U	36	16	ug/m3			08/06/18 17:12	17.8
1,2-Dichloropropane	16	U	16	9.9	ug/m3			08/06/18 17:12	17.8
1,4-Dioxane	320	U	320	83	ug/m3			08/06/18 17:12	17.8
Bromodichloromethane	24	U	24	11	ug/m3			08/06/18 17:12	17.8
cis-1,3-Dichloropropene	16	U	16	7.9	ug/m3			08/06/18 17:12	17.8
methyl isobutyl ketone	36	U	36	26	ug/m3			08/06/18 17:12	17.8
Toluene	1600		13	4.6	ug/m3			08/06/18 17:12	17.8
trans-1,3-Dichloropropene	16	U	16	9.7	ug/m3			08/06/18 17:12	17.8
1,1,2-Trichloroethane	19	U	19	7.6	ug/m3			08/06/18 17:12	17.8
Tetrachloroethene	47		24	3.5	ug/m3			08/06/18 17:12	17.8
Methyl Butyl Ketone (2-Hexanone)	36	U	36	31	ug/m3			08/06/18 17:12	17.8
Dibromochloromethane	30	U	30	11	ug/m3			08/06/18 17:12	17.8
1,2-Dibromoethane	27	U	27	9.4	ug/m3			08/06/18 17:12	17.8
Chlorobenzene	16	U	16	3.3	ug/m3			08/06/18 17:12	17.8
Ethylbenzene	10	J	15	5.6	ug/m3			08/06/18 17:12	17.8
m,p-Xylene	22	J	39	5.4	ug/m3			08/06/18 17:12	17.8
Xylene, o-	8.7	J	15	5.5	ug/m3			08/06/18 17:12	17.8
Xylene (total)	30	J	54	11	ug/m3			08/06/18 17:12	17.8
Styrene	15	U	15	6.5	ug/m3			08/06/18 17:12	17.8
Bromoform	37	U	37	16	ug/m3			08/06/18 17:12	17.8
Cumene	15	J	18	5.2	ug/m3			08/06/18 17:12	17.8
1,1,2,2-Tetrachloroethane	24	U	24	9.3	ug/m3			08/06/18 17:12	17.8
n-Propylbenzene	14	J	18	6.0	ug/m3			08/06/18 17:12	17.8
4-Ethyltoluene	18	U	18	6.0	ug/m3			08/06/18 17:12	17.8
1,3,5-Trimethylbenzene	18	U	18	5.1	ug/m3			08/06/18 17:12	17.8
2-Chlorotoluene	18	U	18	6.5	ug/m3			08/06/18 17:12	17.8
tert-Butylbenzene	20	U	20	5.7	ug/m3			08/06/18 17:12	17.8
1,2,4-Trimethylbenzene	18	U	18	7.0	ug/m3			08/06/18 17:12	17.8
sec-Butylbenzene	20	U	20	6.4	ug/m3			08/06/18 17:12	17.8
4-Isopropyltoluene	20	U	20	7.3	ug/m3			08/06/18 17:12	17.8
1,3-Dichlorobenzene	21	U	21	8.8	ug/m3			08/06/18 17:12	17.8
1,4-Dichlorobenzene	21	U	21	7.0	ug/m3			08/06/18 17:12	17.8
Benzyl chloride	18	U	18	11	ug/m3			08/06/18 17:12	17.8

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 200-44645-1
SDG: 200-44645-1

Client Sample ID: V-2

Date Collected: 08/02/18 11:12

Date Received: 08/03/18 10:10

Sample Container: Summa Canister 6L

Lab Sample ID: 200-44645-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	20	U	20	7.8	ug/m3			08/06/18 17:12	17.8
1,2-Dichlorobenzene	21	U	21	7.6	ug/m3			08/06/18 17:12	17.8
1,2,4-Trichlorobenzene	66	U	66	32	ug/m3			08/06/18 17:12	17.8
Hexachlorobutadiene	38	U	38	16	ug/m3			08/06/18 17:12	17.8
Naphthalene	47	U	47	29	ug/m3			08/06/18 17:12	17.8

Client Sample ID: V-3

Date Collected: 08/02/18 12:00

Date Received: 08/03/18 10:10

Sample Container: Summa Canister 6L

Lab Sample ID: 200-44645-3

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5700	U	5700	2300	ppb v/v			08/06/18 18:04	11484
Freon 22	5700	U	5700	3000	ppb v/v			08/06/18 18:04	11484
1,2-Dichlorotetrafluoroethane	2300	U	2300	780	ppb v/v			08/06/18 18:04	11484
Chloromethane	5700	U	5700	2900	ppb v/v			08/06/18 18:04	11484
n-Butane	9900		5700	3600	ppb v/v			08/06/18 18:04	11484
Vinyl chloride	400	U	400	470	ppb v/v			08/06/18 18:04	11484
1,3-Butadiene	2300	U	2300	750	ppb v/v			08/06/18 18:04	11484
Bromomethane	2300	U	2300	710	ppb v/v			08/06/18 18:04	11484
Chloroethane	5700	U	5700	2400	ppb v/v			08/06/18 18:04	11484
Bromoethene(Vinyl Bromide)	2300	U	2300	640	ppb v/v			08/06/18 18:04	11484
Trichlorofluoromethane	2300	U	2300	710	ppb v/v			08/06/18 18:04	11484
Freon TF	2300	U	2300	360	ppb v/v			08/06/18 18:04	11484
1,1-Dichloroethene	400	U	400	390	ppb v/v			08/06/18 18:04	11484
Acetone	57000	U	57000	30000	ppb v/v			08/06/18 18:04	11484
Isopropyl alcohol	57000	U	57000	21000	ppb v/v			08/06/18 18:04	11484
Carbon disulfide	5700	U	5700	1400	ppb v/v			08/06/18 18:04	11484
3-Chloropropene	5700	U	5700	3100	ppb v/v			08/06/18 18:04	11484
Methylene Chloride	5700	U	5700	2300	ppb v/v			08/06/18 18:04	11484
tert-Butyl alcohol	57000	U	57000	17000	ppb v/v			08/06/18 18:04	11484
Methyl tert-butyl ether	2300	U	2300	700	ppb v/v			08/06/18 18:04	11484
trans-1,2-Dichloroethene	2300	U	2300	850	ppb v/v			08/06/18 18:04	11484
n-Hexane	5600		2300	1800	ppb v/v			08/06/18 18:04	11484
1,1-Dichloroethane	2300	U	2300	300	ppb v/v			08/06/18 18:04	11484
Methyl Ethyl Ketone	5700	U	5700	2300	ppb v/v			08/06/18 18:04	11484
cis-1,2-Dichloroethene	400	U	400	420	ppb v/v			08/06/18 18:04	11484
1,2-Dichloroethene, Total	4600	U	4600	1300	ppb v/v			08/06/18 18:04	11484
Chloroform	2300	U	2300	600	ppb v/v			08/06/18 18:04	11484
Tetrahydrofuran	57000	U	57000	30000	ppb v/v			08/06/18 18:04	11484
1,1,1-Trichloroethane	2300	U	2300	780	ppb v/v			08/06/18 18:04	11484
Cyclohexane	3300		2300	720	ppb v/v			08/06/18 18:04	11484
Carbon tetrachloride	400	U	400	280	ppb v/v			08/06/18 18:04	11484
2,2,4-Trimethylpentane	230000		2300	1000	ppb v/v			08/06/18 18:04	11484
Benzene	1700	J	2300	820	ppb v/v			08/06/18 18:04	11484
1,2-Dichloroethane	2300	U	2300	720	ppb v/v			08/06/18 18:04	11484
n-Heptane	5900		2300	1600	ppb v/v			08/06/18 18:04	11484
Trichloroethene	400	U	400	340	ppb v/v			08/06/18 18:04	11484

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 200-44645-1
SDG: 200-44645-1

Client Sample ID: V-3

Date Collected: 08/02/18 12:00

Date Received: 08/03/18 10:10

Sample Container: Summa Canister 6L

Lab Sample ID: 200-44645-3

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl methacrylate	5700	U	5700	2500	ppb v/v			08/06/18 18:04	11484
1,2-Dichloropropane	2300	U	2300	1400	ppb v/v			08/06/18 18:04	11484
1,4-Dioxane	57000	U	57000	15000	ppb v/v			08/06/18 18:04	11484
Bromodichloromethane	2300	U	2300	1100	ppb v/v			08/06/18 18:04	11484
cis-1,3-Dichloropropene	2300	U	2300	1100	ppb v/v			08/06/18 18:04	11484
methyl isobutyl ketone	5700	U	5700	4100	ppb v/v			08/06/18 18:04	11484
Toluene	2300	U	2300	790	ppb v/v			08/06/18 18:04	11484
trans-1,3-Dichloropropene	2300	U	2300	1400	ppb v/v			08/06/18 18:04	11484
1,1,2-Trichloroethane	2300	U	2300	900	ppb v/v			08/06/18 18:04	11484
Tetrachloroethene	2300	U	2300	330	ppb v/v			08/06/18 18:04	11484
Methyl Butyl Ketone (2-Hexanone)	5700	U	5700	4800	ppb v/v			08/06/18 18:04	11484
Dibromochloromethane	2300	U	2300	820	ppb v/v			08/06/18 18:04	11484
1,2-Dibromoethane	2300	U	2300	790	ppb v/v			08/06/18 18:04	11484
Chlorobenzene	2300	U	2300	460	ppb v/v			08/06/18 18:04	11484
Ethylbenzene	2300	U	2300	840	ppb v/v			08/06/18 18:04	11484
m,p-Xylene	5700	U	5700	800	ppb v/v			08/06/18 18:04	11484
Xylene, o-	2300	U	2300	820	ppb v/v			08/06/18 18:04	11484
Xylene (total)	8000	U	8000	1600	ppb v/v			08/06/18 18:04	11484
Styrene	2300	U	2300	990	ppb v/v			08/06/18 18:04	11484
Bromoform	2300	U	2300	990	ppb v/v			08/06/18 18:04	11484
Cumene	1100	J	2300	680	ppb v/v			08/06/18 18:04	11484
1,1,2,2-Tetrachloroethane	2300	U	2300	870	ppb v/v			08/06/18 18:04	11484
n-Propylbenzene	920	J	2300	790	ppb v/v			08/06/18 18:04	11484
4-Ethyltoluene	2300	U	2300	790	ppb v/v			08/06/18 18:04	11484
1,3,5-Trimethylbenzene	2300	U	2300	670	ppb v/v			08/06/18 18:04	11484
2-Chlorotoluene	2300	U	2300	820	ppb v/v			08/06/18 18:04	11484
tert-Butylbenzene	2300	U	2300	670	ppb v/v			08/06/18 18:04	11484
1,2,4-Trimethylbenzene	2300	U	2300	920	ppb v/v			08/06/18 18:04	11484
sec-Butylbenzene	2300	U	2300	760	ppb v/v			08/06/18 18:04	11484
4-Isopropyltoluene	2300	U	2300	860	ppb v/v			08/06/18 18:04	11484
1,3-Dichlorobenzene	2300	U	2300	940	ppb v/v			08/06/18 18:04	11484
1,4-Dichlorobenzene	2300	U	2300	750	ppb v/v			08/06/18 18:04	11484
Benzyl chloride	2300	U	2300	1400	ppb v/v			08/06/18 18:04	11484
n-Butylbenzene	2300	U	2300	920	ppb v/v			08/06/18 18:04	11484
1,2-Dichlorobenzene	2300	U	2300	820	ppb v/v			08/06/18 18:04	11484
1,2,4-Trichlorobenzene	5700	U	5700	2800	ppb v/v			08/06/18 18:04	11484
Hexachlorobutadiene	2300	U	2300	940	ppb v/v			08/06/18 18:04	11484
Naphthalene	5700	U	5700	3600	ppb v/v			08/06/18 18:04	11484
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	28000	U	28000	11000	ug/m3			08/06/18 18:04	11484
Freon 22	20000	U	20000	11000	ug/m3			08/06/18 18:04	11484
1,2-Dichlorotetrafluoroethane	16000	U	16000	5500	ug/m3			08/06/18 18:04	11484
Chloromethane	12000	U	12000	5900	ug/m3			08/06/18 18:04	11484
n-Butane	24000		14000	8500	ug/m3			08/06/18 18:04	11484
Vinyl chloride	1000	U	1000	1200	ug/m3			08/06/18 18:04	11484
1,3-Butadiene	5100	U	5100	1700	ug/m3			08/06/18 18:04	11484
Bromomethane	8900	U	8900	2800	ug/m3			08/06/18 18:04	11484
Chloroethane	15000	U	15000	6400	ug/m3			08/06/18 18:04	11484

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 200-44645-1
SDG: 200-44645-1

Client Sample ID: V-3

Lab Sample ID: 200-44645-3

Date Collected: 08/02/18 12:00

Matrix: Air

Date Received: 08/03/18 10:10

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoethene(Vinyl Bromide)	10000	U	10000	2800	ug/m3			08/06/18 18:04	11484
Trichlorofluoromethane	13000	U	13000	4000	ug/m3			08/06/18 18:04	11484
Freon TF	18000	U	18000	2700	ug/m3			08/06/18 18:04	11484
1,1-Dichloroethene	1600	U	1600	1500	ug/m3			08/06/18 18:04	11484
Acetone	140000	U	140000	71000	ug/m3			08/06/18 18:04	11484
Isopropyl alcohol	140000	U	140000	51000	ug/m3			08/06/18 18:04	11484
Carbon disulfide	18000	U	18000	4300	ug/m3			08/06/18 18:04	11484
3-Chloropropene	18000	U	18000	9700	ug/m3			08/06/18 18:04	11484
Methylene Chloride	20000	U	20000	8000	ug/m3			08/06/18 18:04	11484
tert-Butyl alcohol	170000	U	170000	52000	ug/m3			08/06/18 18:04	11484
Methyl tert-butyl ether	8300	U	8300	2500	ug/m3			08/06/18 18:04	11484
trans-1,2-Dichloroethene	9100	U	9100	3400	ug/m3			08/06/18 18:04	11484
n-Hexane	20000		8100	6500	ug/m3			08/06/18 18:04	11484
1,1-Dichloroethane	9300	U	9300	1200	ug/m3			08/06/18 18:04	11484
Methyl Ethyl Ketone	17000	U	17000	6800	ug/m3			08/06/18 18:04	11484
cis-1,2-Dichloroethene	1600	U	1600	1700	ug/m3			08/06/18 18:04	11484
1,2-Dichloroethene, Total	18000	U	18000	5100	ug/m3			08/06/18 18:04	11484
Chloroform	11000	U	11000	2900	ug/m3			08/06/18 18:04	11484
Tetrahydrofuran	170000	U	170000	88000	ug/m3			08/06/18 18:04	11484
1,1,1-Trichloroethane	13000	U	13000	4300	ug/m3			08/06/18 18:04	11484
Cyclohexane	11000		7900	2500	ug/m3			08/06/18 18:04	11484
Carbon tetrachloride	2500	U	2500	1700	ug/m3			08/06/18 18:04	11484
2,2,4-Trimethylpentane	1100000		11000	4700	ug/m3			08/06/18 18:04	11484
Benzene	5400	J	7300	2600	ug/m3			08/06/18 18:04	11484
1,2-Dichloroethane	9300	U	9300	2900	ug/m3			08/06/18 18:04	11484
n-Heptane	24000		9400	6600	ug/m3			08/06/18 18:04	11484
Trichloroethene	2200	U	2200	1900	ug/m3			08/06/18 18:04	11484
Methyl methacrylate	24000	U	24000	10000	ug/m3			08/06/18 18:04	11484
1,2-Dichloropropane	11000	U	11000	6400	ug/m3			08/06/18 18:04	11484
1,4-Dioxane	210000	U	210000	54000	ug/m3			08/06/18 18:04	11484
Bromodichloromethane	15000	U	15000	7200	ug/m3			08/06/18 18:04	11484
cis-1,3-Dichloropropene	10000	U	10000	5100	ug/m3			08/06/18 18:04	11484
methyl isobutyl ketone	24000	U	24000	17000	ug/m3			08/06/18 18:04	11484
Toluene	8700	U	8700	3000	ug/m3			08/06/18 18:04	11484
trans-1,3-Dichloropropene	10000	U	10000	6300	ug/m3			08/06/18 18:04	11484
1,1,2-Trichloroethane	13000	U	13000	4900	ug/m3			08/06/18 18:04	11484
Tetrachloroethene	16000	U	16000	2300	ug/m3			08/06/18 18:04	11484
Methyl Butyl Ketone (2-Hexanone)	24000	U	24000	20000	ug/m3			08/06/18 18:04	11484
Dibromochloromethane	20000	U	20000	6900	ug/m3			08/06/18 18:04	11484
1,2-Dibromoethane	18000	U	18000	6100	ug/m3			08/06/18 18:04	11484
Chlorobenzene	11000	U	11000	2100	ug/m3			08/06/18 18:04	11484
Ethylbenzene	10000	U	10000	3600	ug/m3			08/06/18 18:04	11484
m,p-Xylene	25000	U	25000	3500	ug/m3			08/06/18 18:04	11484
Xylene, o-	10000	U	10000	3500	ug/m3			08/06/18 18:04	11484
Xylene (total)	35000	U	35000	7000	ug/m3			08/06/18 18:04	11484
Styrene	9800	U	9800	4200	ug/m3			08/06/18 18:04	11484
Bromoform	24000	U	24000	10000	ug/m3			08/06/18 18:04	11484
Cumene	5300	J	11000	3300	ug/m3			08/06/18 18:04	11484

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 200-44645-1
SDG: 200-44645-1

Client Sample ID: V-3

Date Collected: 08/02/18 12:00

Date Received: 08/03/18 10:10

Sample Container: Summa Canister 6L

Lab Sample ID: 200-44645-3

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	16000	U	16000	6000	ug/m3			08/06/18 18:04	11484
n-Propylbenzene	4500	J	11000	3900	ug/m3			08/06/18 18:04	11484
4-Ethyltoluene	11000	U	11000	3900	ug/m3			08/06/18 18:04	11484
1,3,5-Trimethylbenzene	11000	U	11000	3300	ug/m3			08/06/18 18:04	11484
2-Chlorotoluene	12000	U	12000	4200	ug/m3			08/06/18 18:04	11484
tert-Butylbenzene	13000	U	13000	3700	ug/m3			08/06/18 18:04	11484
1,2,4-Trimethylbenzene	11000	U	11000	4500	ug/m3			08/06/18 18:04	11484
sec-Butylbenzene	13000	U	13000	4200	ug/m3			08/06/18 18:04	11484
4-Isopropyltoluene	13000	U	13000	4700	ug/m3			08/06/18 18:04	11484
1,3-Dichlorobenzene	14000	U	14000	5700	ug/m3			08/06/18 18:04	11484
1,4-Dichlorobenzene	14000	U	14000	4500	ug/m3			08/06/18 18:04	11484
Benzyl chloride	12000	U	12000	7100	ug/m3			08/06/18 18:04	11484
n-Butylbenzene	13000	U	13000	5000	ug/m3			08/06/18 18:04	11484
1,2-Dichlorobenzene	14000	U	14000	4900	ug/m3			08/06/18 18:04	11484
1,2,4-Trichlorobenzene	43000	U	43000	20000	ug/m3			08/06/18 18:04	11484
Hexachlorobutadiene	24000	U	24000	10000	ug/m3			08/06/18 18:04	11484
Naphthalene	30000	U	30000	19000	ug/m3			08/06/18 18:04	11484

Client Sample ID: V-4

Date Collected: 08/02/18 12:30

Date Received: 08/03/18 10:10

Sample Container: Summa Canister 6L

Lab Sample ID: 200-44645-4

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.5	U	1.5	0.60	ppb v/v			08/07/18 09:40	2.99
Freon 22	6.8		1.5	0.78	ppb v/v			08/07/18 09:40	2.99
1,2-Dichlorotetrafluoroethane	0.60	U	0.60	0.20	ppb v/v			08/07/18 09:40	2.99
Chloromethane	0.99	J	1.5	0.75	ppb v/v			08/07/18 09:40	2.99
n-Butane	38		1.5	0.93	ppb v/v			08/07/18 09:40	2.99
Vinyl chloride	0.10	U	0.10	0.12	ppb v/v			08/07/18 09:40	2.99
1,3-Butadiene	0.32	J	0.60	0.19	ppb v/v			08/07/18 09:40	2.99
Bromomethane	0.60	U	0.60	0.19	ppb v/v			08/07/18 09:40	2.99
Chloroethane	1.5	U	1.5	0.63	ppb v/v			08/07/18 09:40	2.99
Bromoethene(Vinyl Bromide)	0.60	U	0.60	0.17	ppb v/v			08/07/18 09:40	2.99
Trichlorofluoromethane	3.7		0.60	0.19	ppb v/v			08/07/18 09:40	2.99
Freon TF	0.60	U	0.60	0.093	ppb v/v			08/07/18 09:40	2.99
1,1-Dichloroethene	0.10	U	0.10	0.10	ppb v/v			08/07/18 09:40	2.99
Acetone	19		15	7.8	ppb v/v			08/07/18 09:40	2.99
Isopropyl alcohol	15	U	15	5.4	ppb v/v			08/07/18 09:40	2.99
Carbon disulfide	14		1.5	0.36	ppb v/v			08/07/18 09:40	2.99
3-Chloropropene	1.5	U	1.5	0.81	ppb v/v			08/07/18 09:40	2.99
Methylene Chloride	0.74	J	1.5	0.60	ppb v/v			08/07/18 09:40	2.99
tert-Butyl alcohol	15	U	15	4.5	ppb v/v			08/07/18 09:40	2.99
Methyl tert-butyl ether	0.60	U	0.60	0.18	ppb v/v			08/07/18 09:40	2.99
trans-1,2-Dichloroethene	0.60	U	0.60	0.22	ppb v/v			08/07/18 09:40	2.99
n-Hexane	3.4		0.60	0.48	ppb v/v			08/07/18 09:40	2.99
1,1-Dichloroethane	0.60	U	0.60	0.078	ppb v/v			08/07/18 09:40	2.99
Methyl Ethyl Ketone	1.6		1.5	0.60	ppb v/v			08/07/18 09:40	2.99

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 200-44645-1
SDG: 200-44645-1

Client Sample ID: V-4

Date Collected: 08/02/18 12:30

Date Received: 08/03/18 10:10

Sample Container: Summa Canister 6L

Lab Sample ID: 200-44645-4

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.10	U	0.10	0.11	ppb v/v			08/07/18 09:40	2.99
1,2-Dichloroethene, Total	1.2	U	1.2	0.33	ppb v/v			08/07/18 09:40	2.99
Chloroform	67		0.60	0.16	ppb v/v			08/07/18 09:40	2.99
Tetrahydrofuran	15	U	15	7.8	ppb v/v			08/07/18 09:40	2.99
1,1,1-Trichloroethane	0.60	U	0.60	0.20	ppb v/v			08/07/18 09:40	2.99
Cyclohexane	1.7		0.60	0.19	ppb v/v			08/07/18 09:40	2.99
Carbon tetrachloride	0.13		0.10	0.072	ppb v/v			08/07/18 09:40	2.99
2,2,4-Trimethylpentane	97		0.60	0.26	ppb v/v			08/07/18 09:40	2.99
Benzene	2.2		0.60	0.21	ppb v/v			08/07/18 09:40	2.99
1,2-Dichloroethane	0.60	U	0.60	0.19	ppb v/v			08/07/18 09:40	2.99
n-Heptane	0.60	U	0.60	0.42	ppb v/v			08/07/18 09:40	2.99
Trichloroethene	0.21		0.10	0.090	ppb v/v			08/07/18 09:40	2.99
Methyl methacrylate	11		1.5	0.66	ppb v/v			08/07/18 09:40	2.99
1,2-Dichloropropane	0.60	U	0.60	0.36	ppb v/v			08/07/18 09:40	2.99
1,4-Dioxane	15	U	15	3.9	ppb v/v			08/07/18 09:40	2.99
Bromodichloromethane	14		0.60	0.28	ppb v/v			08/07/18 09:40	2.99
cis-1,3-Dichloropropene	0.60	U	0.60	0.29	ppb v/v			08/07/18 09:40	2.99
methyl isobutyl ketone	1.5	U	1.5	1.1	ppb v/v			08/07/18 09:40	2.99
Toluene	3.6		0.60	0.21	ppb v/v			08/07/18 09:40	2.99
trans-1,3-Dichloropropene	0.60	U	0.60	0.36	ppb v/v			08/07/18 09:40	2.99
1,1,2-Trichloroethane	0.60	U	0.60	0.23	ppb v/v			08/07/18 09:40	2.99
Tetrachloroethene	0.11	J	0.60	0.087	ppb v/v			08/07/18 09:40	2.99
Methyl Butyl Ketone (2-Hexanone)	1.5	U	1.5	1.3	ppb v/v			08/07/18 09:40	2.99
Dibromochloromethane	0.96		0.60	0.21	ppb v/v			08/07/18 09:40	2.99
1,2-Dibromoethane	0.60	U	0.60	0.21	ppb v/v			08/07/18 09:40	2.99
Chlorobenzene	0.31	J	0.60	0.12	ppb v/v			08/07/18 09:40	2.99
Ethylbenzene	42		0.60	0.22	ppb v/v			08/07/18 09:40	2.99
m,p-Xylene	94		1.5	0.21	ppb v/v			08/07/18 09:40	2.99
Xylene, o-	87		0.60	0.21	ppb v/v			08/07/18 09:40	2.99
Xylene (total)	180		2.1	0.42	ppb v/v			08/07/18 09:40	2.99
Styrene	3.0		0.60	0.26	ppb v/v			08/07/18 09:40	2.99
Bromoform	0.60	U	0.60	0.26	ppb v/v			08/07/18 09:40	2.99
Cumene	1.4		0.60	0.18	ppb v/v			08/07/18 09:40	2.99
1,1,2,2-Tetrachloroethane	0.60	U	0.60	0.23	ppb v/v			08/07/18 09:40	2.99
n-Propylbenzene	0.60	U	0.60	0.21	ppb v/v			08/07/18 09:40	2.99
4-Ethyltoluene	0.60	U	0.60	0.21	ppb v/v			08/07/18 09:40	2.99
1,3,5-Trimethylbenzene	0.60	U	0.60	0.17	ppb v/v			08/07/18 09:40	2.99
2-Chlorotoluene	0.60	U	0.60	0.21	ppb v/v			08/07/18 09:40	2.99
tert-Butylbenzene	0.60	U	0.60	0.17	ppb v/v			08/07/18 09:40	2.99
1,2,4-Trimethylbenzene	0.91		0.60	0.24	ppb v/v			08/07/18 09:40	2.99
sec-Butylbenzene	0.60	U	0.60	0.20	ppb v/v			08/07/18 09:40	2.99
4-Isopropyltoluene	2.7		0.60	0.22	ppb v/v			08/07/18 09:40	2.99
1,3-Dichlorobenzene	0.60	U	0.60	0.25	ppb v/v			08/07/18 09:40	2.99
1,4-Dichlorobenzene	0.60	U	0.60	0.19	ppb v/v			08/07/18 09:40	2.99
Benzyl chloride	0.60	U	0.60	0.36	ppb v/v			08/07/18 09:40	2.99
n-Butylbenzene	0.60	U	0.60	0.24	ppb v/v			08/07/18 09:40	2.99
1,2-Dichlorobenzene	0.60	U	0.60	0.21	ppb v/v			08/07/18 09:40	2.99
1,2,4-Trichlorobenzene	1.5	U	1.5	0.72	ppb v/v			08/07/18 09:40	2.99

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 200-44645-1
SDG: 200-44645-1

Client Sample ID: V-4

Date Collected: 08/02/18 12:30

Date Received: 08/03/18 10:10

Sample Container: Summa Canister 6L

Lab Sample ID: 200-44645-4

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	0.60	U	0.60	0.25	ppb v/v			08/07/18 09:40	2.99
Naphthalene	1.5	U	1.5	0.93	ppb v/v			08/07/18 09:40	2.99
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	7.4	U	7.4	3.0	ug/m3			08/07/18 09:40	2.99
Freon 22	24		5.3	2.7	ug/m3			08/07/18 09:40	2.99
1,2-Dichlorotetrafluoroethane	4.2	U	4.2	1.4	ug/m3			08/07/18 09:40	2.99
Chloromethane	2.0	J	3.1	1.5	ug/m3			08/07/18 09:40	2.99
n-Butane	90		3.6	2.2	ug/m3			08/07/18 09:40	2.99
Vinyl chloride	0.27	U	0.27	0.31	ug/m3			08/07/18 09:40	2.99
1,3-Butadiene	0.71	J	1.3	0.43	ug/m3			08/07/18 09:40	2.99
Bromomethane	2.3	U	2.3	0.72	ug/m3			08/07/18 09:40	2.99
Chloroethane	3.9	U	3.9	1.7	ug/m3			08/07/18 09:40	2.99
Bromoethene(Vinyl Bromide)	2.6	U	2.6	0.73	ug/m3			08/07/18 09:40	2.99
Trichlorofluoromethane	21		3.4	1.0	ug/m3			08/07/18 09:40	2.99
Freon TF	4.6	U	4.6	0.71	ug/m3			08/07/18 09:40	2.99
1,1-Dichloroethene	0.42	U	0.42	0.40	ug/m3			08/07/18 09:40	2.99
Acetone	46		36	18	ug/m3			08/07/18 09:40	2.99
Isopropyl alcohol	37	U	37	13	ug/m3			08/07/18 09:40	2.99
Carbon disulfide	42		4.7	1.1	ug/m3			08/07/18 09:40	2.99
3-Chloropropene	4.7	U	4.7	2.5	ug/m3			08/07/18 09:40	2.99
Methylene Chloride	2.6	J	5.2	2.1	ug/m3			08/07/18 09:40	2.99
tert-Butyl alcohol	45	U	45	14	ug/m3			08/07/18 09:40	2.99
Methyl tert-butyl ether	2.2	U	2.2	0.66	ug/m3			08/07/18 09:40	2.99
trans-1,2-Dichloroethene	2.4	U	2.4	0.88	ug/m3			08/07/18 09:40	2.99
n-Hexane	12		2.1	1.7	ug/m3			08/07/18 09:40	2.99
1,1-Dichloroethane	2.4	U	2.4	0.31	ug/m3			08/07/18 09:40	2.99
Methyl Ethyl Ketone	4.7		4.4	1.8	ug/m3			08/07/18 09:40	2.99
cis-1,2-Dichloroethene	0.42	U	0.42	0.44	ug/m3			08/07/18 09:40	2.99
1,2-Dichloroethene, Total	4.7	U	4.7	1.3	ug/m3			08/07/18 09:40	2.99
Chloroform	320		2.9	0.76	ug/m3			08/07/18 09:40	2.99
Tetrahydrofuran	44	U	44	23	ug/m3			08/07/18 09:40	2.99
1,1,1-Trichloroethane	3.3	U	3.3	1.1	ug/m3			08/07/18 09:40	2.99
Cyclohexane	5.7		2.1	0.65	ug/m3			08/07/18 09:40	2.99
Carbon tetrachloride	0.84		0.66	0.45	ug/m3			08/07/18 09:40	2.99
2,2,4-Trimethylpentane	460		2.8	1.2	ug/m3			08/07/18 09:40	2.99
Benzene	7.0		1.9	0.68	ug/m3			08/07/18 09:40	2.99
1,2-Dichloroethane	2.4	U	2.4	0.76	ug/m3			08/07/18 09:40	2.99
n-Heptane	2.5	U	2.5	1.7	ug/m3			08/07/18 09:40	2.99
Trichloroethene	1.2		0.56	0.48	ug/m3			08/07/18 09:40	2.99
Methyl methacrylate	44		6.1	2.7	ug/m3			08/07/18 09:40	2.99
1,2-Dichloropropane	2.8	U	2.8	1.7	ug/m3			08/07/18 09:40	2.99
1,4-Dioxane	54	U	54	14	ug/m3			08/07/18 09:40	2.99
Bromodichloromethane	93		4.0	1.9	ug/m3			08/07/18 09:40	2.99
cis-1,3-Dichloropropene	2.7	U	2.7	1.3	ug/m3			08/07/18 09:40	2.99
methyl isobutyl ketone	6.1	U	6.1	4.4	ug/m3			08/07/18 09:40	2.99
Toluene	14		2.3	0.78	ug/m3			08/07/18 09:40	2.99
trans-1,3-Dichloropropene	2.7	U	2.7	1.6	ug/m3			08/07/18 09:40	2.99
1,1,2-Trichloroethane	3.3	U	3.3	1.3	ug/m3			08/07/18 09:40	2.99

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 200-44645-1
SDG: 200-44645-1

Client Sample ID: V-4

Date Collected: 08/02/18 12:30

Date Received: 08/03/18 10:10

Sample Container: Summa Canister 6L

Lab Sample ID: 200-44645-4

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.75	J	4.1	0.59	ug/m3			08/07/18 09:40	2.99
Methyl Butyl Ketone (2-Hexanone)	6.1	U	6.1	5.1	ug/m3			08/07/18 09:40	2.99
Dibromochloromethane	8.2		5.1	1.8	ug/m3			08/07/18 09:40	2.99
1,2-Dibromoethane	4.6	U	4.6	1.6	ug/m3			08/07/18 09:40	2.99
Chlorobenzene	1.4	J	2.8	0.55	ug/m3			08/07/18 09:40	2.99
Ethylbenzene	180		2.6	0.95	ug/m3			08/07/18 09:40	2.99
m,p-Xylene	410		6.5	0.91	ug/m3			08/07/18 09:40	2.99
Xylene, o-	380		2.6	0.92	ug/m3			08/07/18 09:40	2.99
Xylene (total)	790		9.1	1.8	ug/m3			08/07/18 09:40	2.99
Styrene	13		2.5	1.1	ug/m3			08/07/18 09:40	2.99
Bromoform	6.2	U	6.2	2.7	ug/m3			08/07/18 09:40	2.99
Cumene	6.8		2.9	0.87	ug/m3			08/07/18 09:40	2.99
1,1,2,2-Tetrachloroethane	4.1	U	4.1	1.6	ug/m3			08/07/18 09:40	2.99
n-Propylbenzene	2.9	U	2.9	1.0	ug/m3			08/07/18 09:40	2.99
4-Ethyltoluene	2.9	U	2.9	1.0	ug/m3			08/07/18 09:40	2.99
1,3,5-Trimethylbenzene	2.9	U	2.9	0.85	ug/m3			08/07/18 09:40	2.99
2-Chlorotoluene	3.1	U	3.1	1.1	ug/m3			08/07/18 09:40	2.99
tert-Butylbenzene	3.3	U	3.3	0.95	ug/m3			08/07/18 09:40	2.99
1,2,4-Trimethylbenzene	4.5		2.9	1.2	ug/m3			08/07/18 09:40	2.99
sec-Butylbenzene	3.3	U	3.3	1.1	ug/m3			08/07/18 09:40	2.99
4-Isopropyltoluene	15		3.3	1.2	ug/m3			08/07/18 09:40	2.99
1,3-Dichlorobenzene	3.6	U	3.6	1.5	ug/m3			08/07/18 09:40	2.99
1,4-Dichlorobenzene	3.6	U	3.6	1.2	ug/m3			08/07/18 09:40	2.99
Benzyl chloride	3.1	U	3.1	1.9	ug/m3			08/07/18 09:40	2.99
n-Butylbenzene	3.3	U	3.3	1.3	ug/m3			08/07/18 09:40	2.99
1,2-Dichlorobenzene	3.6	U	3.6	1.3	ug/m3			08/07/18 09:40	2.99
1,2,4-Trichlorobenzene	11	U	11	5.3	ug/m3			08/07/18 09:40	2.99
Hexachlorobutadiene	6.4	U	6.4	2.6	ug/m3			08/07/18 09:40	2.99
Naphthalene	7.8	U	7.8	4.9	ug/m3			08/07/18 09:40	2.99

Client Sample ID: V-5

Date Collected: 08/02/18 11:57

Date Received: 08/03/18 10:10

Sample Container: Summa Canister 6L

Lab Sample ID: 200-44645-5

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	7.0	U	7.0	2.8	ppb v/v			08/06/18 19:48	14
Freon 22	7.0	U	7.0	3.6	ppb v/v			08/06/18 19:48	14
1,2-Dichlorotetrafluoroethane	2.8	U	2.8	0.95	ppb v/v			08/06/18 19:48	14
Chloromethane	7.0	U	7.0	3.5	ppb v/v			08/06/18 19:48	14
n-Butane	73		7.0	4.3	ppb v/v			08/06/18 19:48	14
Vinyl chloride	0.49	U	0.49	0.57	ppb v/v			08/06/18 19:48	14
1,3-Butadiene	5.8		2.8	0.91	ppb v/v			08/06/18 19:48	14
Bromomethane	2.8	U	2.8	0.87	ppb v/v			08/06/18 19:48	14
Chloroethane	7.0	U	7.0	2.9	ppb v/v			08/06/18 19:48	14
Bromoethene(Vinyl Bromide)	2.8	U	2.8	0.78	ppb v/v			08/06/18 19:48	14
Trichlorofluoromethane	2.8	U	2.8	0.87	ppb v/v			08/06/18 19:48	14
Freon TF	2.8	U	2.8	0.43	ppb v/v			08/06/18 19:48	14

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 200-44645-1
SDG: 200-44645-1

Client Sample ID: V-5

Date Collected: 08/02/18 11:57

Date Received: 08/03/18 10:10

Sample Container: Summa Canister 6L

Lab Sample ID: 200-44645-5

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.49	U	0.49	0.48	ppb v/v			08/06/18 19:48	14
Acetone	70	U	70	36	ppb v/v			08/06/18 19:48	14
Isopropyl alcohol	70	U	70	25	ppb v/v			08/06/18 19:48	14
Carbon disulfide	6.7	J	7.0	1.7	ppb v/v			08/06/18 19:48	14
3-Chloropropene	7.0	U	7.0	3.8	ppb v/v			08/06/18 19:48	14
Methylene Chloride	7.0	U	7.0	2.8	ppb v/v			08/06/18 19:48	14
tert-Butyl alcohol	70	U	70	21	ppb v/v			08/06/18 19:48	14
Methyl tert-butyl ether	2.8	U	2.8	0.85	ppb v/v			08/06/18 19:48	14
trans-1,2-Dichloroethene	2.8	U	2.8	1.0	ppb v/v			08/06/18 19:48	14
n-Hexane	24		2.8	2.2	ppb v/v			08/06/18 19:48	14
1,1-Dichloroethane	2.8	U	2.8	0.36	ppb v/v			08/06/18 19:48	14
Methyl Ethyl Ketone	3.6	J	7.0	2.8	ppb v/v			08/06/18 19:48	14
cis-1,2-Dichloroethene	0.49	U	0.49	0.52	ppb v/v			08/06/18 19:48	14
1,2-Dichloroethene, Total	5.6	U	5.6	1.6	ppb v/v			08/06/18 19:48	14
Chloroform	5.5		2.8	0.73	ppb v/v			08/06/18 19:48	14
Tetrahydrofuran	70	U	70	36	ppb v/v			08/06/18 19:48	14
1,1,1-Trichloroethane	1.1	J	2.8	0.95	ppb v/v			08/06/18 19:48	14
Cyclohexane	4.1		2.8	0.88	ppb v/v			08/06/18 19:48	14
Carbon tetrachloride	0.49	U	0.49	0.34	ppb v/v			08/06/18 19:48	14
2,2,4-Trimethylpentane	8.4		2.8	1.2	ppb v/v			08/06/18 19:48	14
Benzene	2.7	J	2.8	0.99	ppb v/v			08/06/18 19:48	14
1,2-Dichloroethane	2.8	U	2.8	0.88	ppb v/v			08/06/18 19:48	14
n-Heptane	39		2.8	2.0	ppb v/v			08/06/18 19:48	14
Trichloroethene	0.49	U	0.49	0.42	ppb v/v			08/06/18 19:48	14
Methyl methacrylate	7.0	U	7.0	3.1	ppb v/v			08/06/18 19:48	14
1,2-Dichloropropane	2.8	U	2.8	1.7	ppb v/v			08/06/18 19:48	14
1,4-Dioxane	70	U	70	18	ppb v/v			08/06/18 19:48	14
Bromodichloromethane	2.8	U	2.8	1.3	ppb v/v			08/06/18 19:48	14
cis-1,3-Dichloropropene	2.8	U	2.8	1.4	ppb v/v			08/06/18 19:48	14
methyl isobutyl ketone	7.0	U	7.0	5.0	ppb v/v			08/06/18 19:48	14
Toluene	350		2.8	0.97	ppb v/v			08/06/18 19:48	14
trans-1,3-Dichloropropene	2.8	U	2.8	1.7	ppb v/v			08/06/18 19:48	14
1,1,2-Trichloroethane	2.8	U	2.8	1.1	ppb v/v			08/06/18 19:48	14
Tetrachloroethene	3.8		2.8	0.41	ppb v/v			08/06/18 19:48	14
Methyl Butyl Ketone (2-Hexanone)	7.0	U	7.0	5.9	ppb v/v			08/06/18 19:48	14
Dibromochloromethane	2.8	U	2.8	0.99	ppb v/v			08/06/18 19:48	14
1,2-Dibromoethane	2.8	U	2.8	0.97	ppb v/v			08/06/18 19:48	14
Chlorobenzene	2.8	U	2.8	0.56	ppb v/v			08/06/18 19:48	14
Ethylbenzene	2.8	U	2.8	1.0	ppb v/v			08/06/18 19:48	14
m,p-Xylene	1.1	J	7.0	0.98	ppb v/v			08/06/18 19:48	14
Xylene, o-	2.8	U	2.8	0.99	ppb v/v			08/06/18 19:48	14
Xylene (total)	9.8	U	9.8	2.0	ppb v/v			08/06/18 19:48	14
Styrene	2.8	U	2.8	1.2	ppb v/v			08/06/18 19:48	14
Bromoform	2.8	U	2.8	1.2	ppb v/v			08/06/18 19:48	14
Cumene	2.8	U	2.8	0.83	ppb v/v			08/06/18 19:48	14
1,1,2,2-Tetrachloroethane	2.8	U	2.8	1.1	ppb v/v			08/06/18 19:48	14
n-Propylbenzene	2.8	U	2.8	0.97	ppb v/v			08/06/18 19:48	14
4-Ethyltoluene	2.8	U	2.8	0.97	ppb v/v			08/06/18 19:48	14

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 200-44645-1
SDG: 200-44645-1

Client Sample ID: V-5

Date Collected: 08/02/18 11:57

Date Received: 08/03/18 10:10

Sample Container: Summa Canister 6L

Lab Sample ID: 200-44645-5

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	2.8	U	2.8	0.81	ppb v/v			08/06/18 19:48	14
2-Chlorotoluene	2.8	U	2.8	0.99	ppb v/v			08/06/18 19:48	14
tert-Butylbenzene	2.8	U	2.8	0.81	ppb v/v			08/06/18 19:48	14
1,2,4-Trimethylbenzene	2.8	U	2.8	1.1	ppb v/v			08/06/18 19:48	14
sec-Butylbenzene	2.8	U	2.8	0.92	ppb v/v			08/06/18 19:48	14
4-Isopropyltoluene	2.8	U	2.8	1.1	ppb v/v			08/06/18 19:48	14
1,3-Dichlorobenzene	2.8	U	2.8	1.1	ppb v/v			08/06/18 19:48	14
1,4-Dichlorobenzene	2.8	U	2.8	0.91	ppb v/v			08/06/18 19:48	14
Benzyl chloride	2.8	U	2.8	1.7	ppb v/v			08/06/18 19:48	14
n-Butylbenzene	2.8	U	2.8	1.1	ppb v/v			08/06/18 19:48	14
1,2-Dichlorobenzene	2.8	U	2.8	0.99	ppb v/v			08/06/18 19:48	14
1,2,4-Trichlorobenzene	7.0	U	7.0	3.4	ppb v/v			08/06/18 19:48	14
Hexachlorobutadiene	2.8	U	2.8	1.1	ppb v/v			08/06/18 19:48	14
Naphthalene	7.0	U	7.0	4.3	ppb v/v			08/06/18 19:48	14
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	35	U	35	14	ug/m3			08/06/18 19:48	14
Freon 22	25	U	25	13	ug/m3			08/06/18 19:48	14
1,2-Dichlorotetrafluoroethane	20	U	20	6.7	ug/m3			08/06/18 19:48	14
Chloromethane	14	U	14	7.2	ug/m3			08/06/18 19:48	14
n-Butane	170		17	10	ug/m3			08/06/18 19:48	14
Vinyl chloride	1.3	U	1.3	1.5	ug/m3			08/06/18 19:48	14
1,3-Butadiene	13		6.2	2.0	ug/m3			08/06/18 19:48	14
Bromomethane	11	U	11	3.4	ug/m3			08/06/18 19:48	14
Chloroethane	18	U	18	7.8	ug/m3			08/06/18 19:48	14
Bromoethene(Vinyl Bromide)	12	U	12	3.4	ug/m3			08/06/18 19:48	14
Trichlorofluoromethane	16	U	16	4.9	ug/m3			08/06/18 19:48	14
Freon TF	21	U	21	3.3	ug/m3			08/06/18 19:48	14
1,1-Dichloroethene	1.9	U	1.9	1.9	ug/m3			08/06/18 19:48	14
Acetone	170	U	170	86	ug/m3			08/06/18 19:48	14
Isopropyl alcohol	170	U	170	62	ug/m3			08/06/18 19:48	14
Carbon disulfide	21	J	22	5.2	ug/m3			08/06/18 19:48	14
3-Chloropropene	22	U	22	12	ug/m3			08/06/18 19:48	14
Methylene Chloride	24	U	24	9.7	ug/m3			08/06/18 19:48	14
tert-Butyl alcohol	210	U	210	64	ug/m3			08/06/18 19:48	14
Methyl tert-butyl ether	10	U	10	3.1	ug/m3			08/06/18 19:48	14
trans-1,2-Dichloroethene	11	U	11	4.1	ug/m3			08/06/18 19:48	14
n-Hexane	84		9.9	7.9	ug/m3			08/06/18 19:48	14
1,1-Dichloroethane	11	U	11	1.5	ug/m3			08/06/18 19:48	14
Methyl Ethyl Ketone	11	J	21	8.3	ug/m3			08/06/18 19:48	14
cis-1,2-Dichloroethene	1.9	U	1.9	2.1	ug/m3			08/06/18 19:48	14
1,2-Dichloroethene, Total	22	U	22	6.2	ug/m3			08/06/18 19:48	14
Chloroform	27		14	3.6	ug/m3			08/06/18 19:48	14
Tetrahydrofuran	210	U	210	110	ug/m3			08/06/18 19:48	14
1,1,1-Trichloroethane	6.0	J	15	5.2	ug/m3			08/06/18 19:48	14
Cyclohexane	14		9.6	3.0	ug/m3			08/06/18 19:48	14
Carbon tetrachloride	3.1	U	3.1	2.1	ug/m3			08/06/18 19:48	14
2,2,4-Trimethylpentane	39		13	5.8	ug/m3			08/06/18 19:48	14
Benzene	8.6	J	8.9	3.2	ug/m3			08/06/18 19:48	14

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 200-44645-1
SDG: 200-44645-1

Client Sample ID: V-5

Lab Sample ID: 200-44645-5

Date Collected: 08/02/18 11:57

Matrix: Air

Date Received: 08/03/18 10:10

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	11	U	11	3.6	ug/m3			08/06/18 19:48	14
n-Heptane	160		11	8.0	ug/m3			08/06/18 19:48	14
Trichloroethene	2.6	U	2.6	2.3	ug/m3			08/06/18 19:48	14
Methyl methacrylate	29	U	29	13	ug/m3			08/06/18 19:48	14
1,2-Dichloropropane	13	U	13	7.8	ug/m3			08/06/18 19:48	14
1,4-Dioxane	250	U	250	66	ug/m3			08/06/18 19:48	14
Bromodichloromethane	19	U	19	8.8	ug/m3			08/06/18 19:48	14
cis-1,3-Dichloropropene	13	U	13	6.2	ug/m3			08/06/18 19:48	14
methyl isobutyl ketone	29	U	29	21	ug/m3			08/06/18 19:48	14
Toluene	1300		11	3.6	ug/m3			08/06/18 19:48	14
trans-1,3-Dichloropropene	13	U	13	7.6	ug/m3			08/06/18 19:48	14
1,1,2-Trichloroethane	15	U	15	6.0	ug/m3			08/06/18 19:48	14
Tetrachloroethene	26		19	2.8	ug/m3			08/06/18 19:48	14
Methyl Butyl Ketone (2-Hexanone)	29	U	29	24	ug/m3			08/06/18 19:48	14
Dibromochloromethane	24	U	24	8.5	ug/m3			08/06/18 19:48	14
1,2-Dibromoethane	22	U	22	7.4	ug/m3			08/06/18 19:48	14
Chlorobenzene	13	U	13	2.6	ug/m3			08/06/18 19:48	14
Ethylbenzene	12	U	12	4.4	ug/m3			08/06/18 19:48	14
m,p-Xylene	4.9 J		30	4.3	ug/m3			08/06/18 19:48	14
Xylene, o-	12	U	12	4.3	ug/m3			08/06/18 19:48	14
Xylene (total)	43	U	43	8.6	ug/m3			08/06/18 19:48	14
Styrene	12	U	12	5.1	ug/m3			08/06/18 19:48	14
Bromoform	29	U	29	12	ug/m3			08/06/18 19:48	14
Cumene	14	U	14	4.1	ug/m3			08/06/18 19:48	14
1,1,1,2-Tetrachloroethane	19	U	19	7.3	ug/m3			08/06/18 19:48	14
n-Propylbenzene	14	U	14	4.7	ug/m3			08/06/18 19:48	14
4-Ethyltoluene	14	U	14	4.7	ug/m3			08/06/18 19:48	14
1,3,5-Trimethylbenzene	14	U	14	4.0	ug/m3			08/06/18 19:48	14
2-Chlorotoluene	14	U	14	5.1	ug/m3			08/06/18 19:48	14
tert-Butylbenzene	15	U	15	4.5	ug/m3			08/06/18 19:48	14
1,2,4-Trimethylbenzene	14	U	14	5.5	ug/m3			08/06/18 19:48	14
sec-Butylbenzene	15	U	15	5.1	ug/m3			08/06/18 19:48	14
4-Isopropyltoluene	15	U	15	5.8	ug/m3			08/06/18 19:48	14
1,3-Dichlorobenzene	17	U	17	6.9	ug/m3			08/06/18 19:48	14
1,4-Dichlorobenzene	17	U	17	5.5	ug/m3			08/06/18 19:48	14
Benzyl chloride	14	U	14	8.7	ug/m3			08/06/18 19:48	14
n-Butylbenzene	15	U	15	6.1	ug/m3			08/06/18 19:48	14
1,2-Dichlorobenzene	17	U	17	6.0	ug/m3			08/06/18 19:48	14
1,2,4-Trichlorobenzene	52	U	52	25	ug/m3			08/06/18 19:48	14
Hexachlorobutadiene	30	U	30	12	ug/m3			08/06/18 19:48	14
Naphthalene	37	U	37	23	ug/m3			08/06/18 19:48	14

ANALYTICAL REPORT

Job Number: 200-45845-1

SDG Number: 200-45845-1

Job Description: Columbia International

For:

Roux Environmental Eng & Geology DPC

209 Shafter St

Islandia, NY 11749

Attention: Mr. Levi Curnutte



Approved for release.
Kathryn A Kelly
Project Manager II
11/6/2018 11:19 AM

Kathryn A Kelly, Project Manager II
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(802)923-1021
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11/06/2018

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

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Definitions/Glossary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: Columbia International

Report Number: 200-45845-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

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

RECEIPT

The samples were received on 10/23/2018; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was C.

VOLATILE ORGANIC COMPOUNDS

Samples RSB-4-SV, RSB-6-SV, RSB-3-SV, DUP-20181019, RSB-2-SV, RSB-5-SV, RSB-1-SV and AMB-1 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 10/25/2018, 10/29/2018, 10/30/2018 and 10/31/2018.

1,2-Dichloropropane and Methyl methacrylate failed the recovery criteria high for LCS 200-135969/4. Refer to the QC report for details.

The continuing calibration verification (CCV) associated with batch 200-135754 recovered above the upper control limit for 1,2-Dichloropropane, cis-1,3-Dichloropropene, 4-Methy-2-pentanone (MIBK) and Methyl methacrylate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: 200-45845-8.

The concentration(s) of Acetone in the following samples exceeded the calibration range of the instrument: 200-45845-2, 200-45845-3, 200-45845-4 and 200-45845-6. The sample was analyzed with minimum dilution even though some analytes were outside of the calibration range.

The concentration(s) of n-Butane in the following sample exceeded the calibration range of the instrument: 200-45845-6. The sample was analyzed with minimum dilution even though some analytes were outside of the calibration range.

The concentration(s) of n-Butane, Acetone, and Chloroform in the following sample exceeded the calibration range of the instrument: 200-45845-7. The sample was analyzed with minimum dilution even though some analytes were outside of the calibration range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-4-SV

Lab Sample ID: 200-45845-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.82		0.50	0.20	ppb v/v	1		TO-15	Total/NA
Freon 22	1.0		0.50	0.26	ppb v/v	1		TO-15	Total/NA
n-Butane	14		0.50	0.31	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.49		0.20	0.065	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.83		0.20	0.062	ppb v/v	1		TO-15	Total/NA
Acetone	36		5.0	2.6	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.83		0.50	0.12	ppb v/v	1		TO-15	Total/NA
tert-Butyl alcohol	3.6	J	5.0	1.5	ppb v/v	1		TO-15	Total/NA
n-Hexane	5.3		0.20	0.16	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	3.8		0.50	0.20	ppb v/v	1		TO-15	Total/NA
Chloroform	0.78		0.20	0.052	ppb v/v	1		TO-15	Total/NA
Cyclohexane	1.2		0.20	0.063	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.031	J	0.035	0.024	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	2.3		0.20	0.088	ppb v/v	1		TO-15	Total/NA
Benzene	2.1		0.20	0.071	ppb v/v	1		TO-15	Total/NA
n-Heptane	3.3		0.20	0.14	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.76		0.035	0.030	ppb v/v	1		TO-15	Total/NA
Toluene	16		0.20	0.069	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	1.8		0.20	0.029	ppb v/v	1		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	1.4		0.50	0.42	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	4.4		0.20	0.073	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	11		0.50	0.070	ppb v/v	1		TO-15	Total/NA
Xylene, o-	3.9		0.20	0.071	ppb v/v	1		TO-15	Total/NA
Xylene (total)	15		0.70	0.14	ppb v/v	1		TO-15	Total/NA
Styrene	0.24		0.20	0.086	ppb v/v	1		TO-15	Total/NA
n-Propylbenzene	0.51		0.20	0.069	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.54		0.20	0.069	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.64		0.20	0.058	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	2.0		0.20	0.080	ppb v/v	1		TO-15	Total/NA
n-Butylbenzene	0.10	J	0.20	0.080	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	4.0		2.5	0.99	ug/m3	1		TO-15	Total/NA
Freon 22	3.6		1.8	0.92	ug/m3	1		TO-15	Total/NA
n-Butane	34		1.2	0.74	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	1.1		0.44	0.14	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	4.6		1.1	0.35	ug/m3	1		TO-15	Total/NA
Acetone	85		12	6.2	ug/m3	1		TO-15	Total/NA
Carbon disulfide	2.6		1.6	0.37	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol	11	J	15	4.5	ug/m3	1		TO-15	Total/NA
n-Hexane	19		0.70	0.56	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	11		1.5	0.59	ug/m3	1		TO-15	Total/NA
Chloroform	3.8		0.98	0.25	ug/m3	1		TO-15	Total/NA
Cyclohexane	4.1		0.69	0.22	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.19	J	0.22	0.15	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	11		0.93	0.41	ug/m3	1		TO-15	Total/NA
Benzene	6.8		0.64	0.23	ug/m3	1		TO-15	Total/NA
n-Heptane	14		0.82	0.57	ug/m3	1		TO-15	Total/NA
Trichloroethene	4.1		0.19	0.16	ug/m3	1		TO-15	Total/NA
Toluene	61		0.75	0.26	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	13		1.4	0.20	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-4-SV (Continued)

Lab Sample ID: 200-45845-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Butyl Ketone (2-Hexanone)	5.6		2.0	1.7	ug/m3	1		TO-15	Total/NA
Ethylbenzene	19		0.87	0.32	ug/m3	1		TO-15	Total/NA
m,p-Xylene	47		2.2	0.30	ug/m3	1		TO-15	Total/NA
Xylene, o-	17		0.87	0.31	ug/m3	1		TO-15	Total/NA
Xylene (total)	65		3.0	0.61	ug/m3	1		TO-15	Total/NA
Styrene	1.0		0.85	0.37	ug/m3	1		TO-15	Total/NA
n-Propylbenzene	2.5		0.98	0.34	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	2.7		0.98	0.34	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	3.1		0.98	0.29	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	9.8		0.98	0.39	ug/m3	1		TO-15	Total/NA
n-Butylbenzene	0.55	J	1.1	0.44	ug/m3	1		TO-15	Total/NA

Client Sample ID: RSB-6-SV

Lab Sample ID: 200-45845-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.62		0.50	0.20	ppb v/v	1		TO-15	Total/NA
Freon 22	0.76		0.50	0.26	ppb v/v	1		TO-15	Total/NA
n-Butane	2.3		0.50	0.31	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.97		0.20	0.065	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.48		0.20	0.062	ppb v/v	1		TO-15	Total/NA
Acetone	120	E	5.0	2.6	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	2.7		0.50	0.12	ppb v/v	1		TO-15	Total/NA
tert-Butyl alcohol	2.7	J	5.0	1.5	ppb v/v	1		TO-15	Total/NA
n-Hexane	4.1		0.20	0.16	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	8.7		0.50	0.20	ppb v/v	1		TO-15	Total/NA
Chloroform	1.7		0.20	0.052	ppb v/v	1		TO-15	Total/NA
Cyclohexane	1.2		0.20	0.063	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.069		0.035	0.024	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	2.6		0.20	0.088	ppb v/v	1		TO-15	Total/NA
Benzene	2.5		0.20	0.071	ppb v/v	1		TO-15	Total/NA
n-Heptane	3.9		0.20	0.14	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.80		0.035	0.030	ppb v/v	1		TO-15	Total/NA
methyl isobutyl ketone	0.42	J	0.50	0.36	ppb v/v	1		TO-15	Total/NA
Toluene	22		0.20	0.069	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	1.5		0.20	0.029	ppb v/v	1		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	1.4		0.50	0.42	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	4.4		0.20	0.073	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	11		0.50	0.070	ppb v/v	1		TO-15	Total/NA
Xylene, o-	3.9		0.20	0.071	ppb v/v	1		TO-15	Total/NA
Xylene (total)	15		0.70	0.14	ppb v/v	1		TO-15	Total/NA
Styrene	0.25		0.20	0.086	ppb v/v	1		TO-15	Total/NA
Cumene	0.21		0.20	0.059	ppb v/v	1		TO-15	Total/NA
n-Propylbenzene	0.52		0.20	0.069	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.64		0.20	0.069	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.66		0.20	0.058	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	2.2		0.20	0.080	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	3.1		2.5	0.99	ug/m3	1		TO-15	Total/NA
Freon 22	2.7		1.8	0.92	ug/m3	1		TO-15	Total/NA
n-Butane	5.6		1.2	0.74	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-6-SV (Continued)

Lab Sample ID: 200-45845-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3-Butadiene	2.2		0.44	0.14	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	2.7		1.1	0.35	ug/m3	1		TO-15	Total/NA
Acetone	290	E	12	6.2	ug/m3	1		TO-15	Total/NA
Carbon disulfide	8.4		1.6	0.37	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol	8.2	J	15	4.5	ug/m3	1		TO-15	Total/NA
n-Hexane	15		0.70	0.56	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	26		1.5	0.59	ug/m3	1		TO-15	Total/NA
Chloroform	8.5		0.98	0.25	ug/m3	1		TO-15	Total/NA
Cyclohexane	4.2		0.69	0.22	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.43		0.22	0.15	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	12		0.93	0.41	ug/m3	1		TO-15	Total/NA
Benzene	7.9		0.64	0.23	ug/m3	1		TO-15	Total/NA
n-Heptane	16		0.82	0.57	ug/m3	1		TO-15	Total/NA
Trichloroethene	4.3		0.19	0.16	ug/m3	1		TO-15	Total/NA
methyl isobutyl ketone	1.7	J	2.0	1.5	ug/m3	1		TO-15	Total/NA
Toluene	82		0.75	0.26	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	10		1.4	0.20	ug/m3	1		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	5.9		2.0	1.7	ug/m3	1		TO-15	Total/NA
Ethylbenzene	19		0.87	0.32	ug/m3	1		TO-15	Total/NA
m,p-Xylene	49		2.2	0.30	ug/m3	1		TO-15	Total/NA
Xylene, o-	17		0.87	0.31	ug/m3	1		TO-15	Total/NA
Xylene (total)	65		3.0	0.61	ug/m3	1		TO-15	Total/NA
Styrene	1.1		0.85	0.37	ug/m3	1		TO-15	Total/NA
Cumene	1.0		0.98	0.29	ug/m3	1		TO-15	Total/NA
n-Propylbenzene	2.6		0.98	0.34	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	3.2		0.98	0.34	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	3.2		0.98	0.29	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	11		0.98	0.39	ug/m3	1		TO-15	Total/NA

Client Sample ID: RSB-3-SV

Lab Sample ID: 200-45845-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.4		0.50	0.20	ppb v/v	1		TO-15	Total/NA
Freon 22	2.5		0.50	0.26	ppb v/v	1		TO-15	Total/NA
1,2-Dichlorotetrafluoroethane	0.098	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
n-Butane	4.8		0.50	0.31	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.35		0.20	0.065	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.51		0.20	0.062	ppb v/v	1		TO-15	Total/NA
Acetone	62	E	5.0	2.6	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	2.0		0.50	0.12	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.18	J	0.20	0.16	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	1.0		0.50	0.20	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	0.20		0.035	0.037	ppb v/v	1		TO-15	Total/NA
1,2-Dichloroethene, Total	0.20	J	0.40	0.11	ppb v/v	1		TO-15	Total/NA
Chloroform	0.97		0.20	0.052	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.12	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.26		0.035	0.030	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.10	J	0.20	0.029	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	6.8		2.5	0.99	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-3-SV (Continued)

Lab Sample ID: 200-45845-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Freon 22	9.0		1.8	0.92	ug/m3	1		TO-15	Total/NA
1,2-Dichlorotetrafluoroethane	0.68	J	1.4	0.48	ug/m3	1		TO-15	Total/NA
n-Butane	11		1.2	0.74	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.77		0.44	0.14	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	2.9		1.1	0.35	ug/m3	1		TO-15	Total/NA
Acetone	150	E	12	6.2	ug/m3	1		TO-15	Total/NA
Carbon disulfide	6.3		1.6	0.37	ug/m3	1		TO-15	Total/NA
n-Hexane	0.63	J	0.70	0.56	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	3.0		1.5	0.59	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	0.79		0.14	0.15	ug/m3	1		TO-15	Total/NA
1,2-Dichloroethene, Total	0.79	J	1.6	0.44	ug/m3	1		TO-15	Total/NA
Chloroform	4.7		0.98	0.25	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.40	J	0.69	0.22	ug/m3	1		TO-15	Total/NA
Trichloroethene	1.4		0.19	0.16	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.69	J	1.4	0.20	ug/m3	1		TO-15	Total/NA

Client Sample ID: DUP-20181019

Lab Sample ID: 200-45845-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.6		0.50	0.20	ppb v/v	1		TO-15	Total/NA
Freon 22	2.8		0.50	0.26	ppb v/v	1		TO-15	Total/NA
n-Butane	6.1		0.50	0.31	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.72		0.20	0.065	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.68		0.20	0.062	ppb v/v	1		TO-15	Total/NA
Acetone	130	E	5.0	2.6	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	2.3	J	5.0	1.8	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	2.5		0.50	0.12	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.21	J	0.50	0.20	ppb v/v	1		TO-15	Total/NA
tert-Butyl alcohol	2.6	J	5.0	1.5	ppb v/v	1		TO-15	Total/NA
n-Hexane	2.0		0.20	0.16	ppb v/v	1		TO-15	Total/NA
1,1-Dichloroethane	0.080	J	0.20	0.026	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	6.8		0.50	0.20	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	0.40		0.035	0.037	ppb v/v	1		TO-15	Total/NA
1,2-Dichloroethene, Total	0.40		0.40	0.11	ppb v/v	1		TO-15	Total/NA
Chloroform	2.3		0.20	0.052	ppb v/v	1		TO-15	Total/NA
1,1,1-Trichloroethane	0.15	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.60		0.20	0.063	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.038		0.035	0.024	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	1.4		0.20	0.088	ppb v/v	1		TO-15	Total/NA
Benzene	1.0		0.20	0.071	ppb v/v	1		TO-15	Total/NA
n-Heptane	2.0		0.20	0.14	ppb v/v	1		TO-15	Total/NA
Trichloroethene	3.2		0.035	0.030	ppb v/v	1		TO-15	Total/NA
Bromodichloromethane	0.19	J	0.20	0.094	ppb v/v	1		TO-15	Total/NA
methyl isobutyl ketone	0.39	J	0.50	0.36	ppb v/v	1		TO-15	Total/NA
Toluene	10		0.20	0.069	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	11		0.20	0.029	ppb v/v	1		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	0.85		0.50	0.42	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	3.2		0.20	0.073	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	9.2		0.50	0.070	ppb v/v	1		TO-15	Total/NA
Xylene, o-	3.4		0.20	0.071	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: DUP-20181019 (Continued)

Lab Sample ID: 200-45845-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylene (total)	13		0.70	0.14	ppb v/v	1		TO-15	Total/NA
Styrene	0.25		0.20	0.086	ppb v/v	1		TO-15	Total/NA
Cumene	0.20		0.20	0.059	ppb v/v	1		TO-15	Total/NA
n-Propylbenzene	0.53		0.20	0.069	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.66		0.20	0.069	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.70		0.20	0.058	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	2.6		0.20	0.080	ppb v/v	1		TO-15	Total/NA
sec-Butylbenzene	0.089	J	0.20	0.066	ppb v/v	1		TO-15	Total/NA
4-Isopropyltoluene	0.11	J	0.20	0.075	ppb v/v	1		TO-15	Total/NA
n-Butylbenzene	0.19	J	0.20	0.080	ppb v/v	1		TO-15	Total/NA
Naphthalene	0.71		0.50	0.31	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	8.1		2.5	0.99	ug/m3	1		TO-15	Total/NA
Freon 22	10		1.8	0.92	ug/m3	1		TO-15	Total/NA
n-Butane	15		1.2	0.74	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	1.6		0.44	0.14	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	3.8		1.1	0.35	ug/m3	1		TO-15	Total/NA
Acetone	310	E	12	6.2	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	5.7	J	12	4.4	ug/m3	1		TO-15	Total/NA
Carbon disulfide	7.9		1.6	0.37	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.72	J	1.7	0.69	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol	8.0	J	15	4.5	ug/m3	1		TO-15	Total/NA
n-Hexane	7.0		0.70	0.56	ug/m3	1		TO-15	Total/NA
1,1-Dichloroethane	0.33	J	0.81	0.11	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	20		1.5	0.59	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	1.6		0.14	0.15	ug/m3	1		TO-15	Total/NA
1,2-Dichloroethene, Total	1.6		1.6	0.44	ug/m3	1		TO-15	Total/NA
Chloroform	11		0.98	0.25	ug/m3	1		TO-15	Total/NA
1,1,1-Trichloroethane	0.81	J	1.1	0.37	ug/m3	1		TO-15	Total/NA
Cyclohexane	2.1		0.69	0.22	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.24		0.22	0.15	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	6.3		0.93	0.41	ug/m3	1		TO-15	Total/NA
Benzene	3.3		0.64	0.23	ug/m3	1		TO-15	Total/NA
n-Heptane	8.4		0.82	0.57	ug/m3	1		TO-15	Total/NA
Trichloroethene	17		0.19	0.16	ug/m3	1		TO-15	Total/NA
Bromodichloromethane	1.2	J	1.3	0.63	ug/m3	1		TO-15	Total/NA
methyl isobutyl ketone	1.6	J	2.0	1.5	ug/m3	1		TO-15	Total/NA
Toluene	39		0.75	0.26	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	74		1.4	0.20	ug/m3	1		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	3.5		2.0	1.7	ug/m3	1		TO-15	Total/NA
Ethylbenzene	14		0.87	0.32	ug/m3	1		TO-15	Total/NA
m,p-Xylene	40		2.2	0.30	ug/m3	1		TO-15	Total/NA
Xylene, o-	15		0.87	0.31	ug/m3	1		TO-15	Total/NA
Xylene (total)	55		3.0	0.61	ug/m3	1		TO-15	Total/NA
Styrene	1.1		0.85	0.37	ug/m3	1		TO-15	Total/NA
Cumene	0.97		0.98	0.29	ug/m3	1		TO-15	Total/NA
n-Propylbenzene	2.6		0.98	0.34	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	3.3		0.98	0.34	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	3.4		0.98	0.29	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	13		0.98	0.39	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: DUP-20181019 (Continued)

Lab Sample ID: 200-45845-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
sec-Butylbenzene	0.49	J	1.1	0.36	ug/m3	1		TO-15	Total/NA
4-Isopropyltoluene	0.59	J	1.1	0.41	ug/m3	1		TO-15	Total/NA
n-Butylbenzene	1.0	J	1.1	0.44	ug/m3	1		TO-15	Total/NA
Naphthalene	3.7		2.6	1.6	ug/m3	1		TO-15	Total/NA

Client Sample ID: RSB-2-SV

Lab Sample ID: 200-45845-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	4.5		0.50	0.20	ppb v/v	1		TO-15	Total/NA
Freon 22	0.95		0.50	0.26	ppb v/v	1		TO-15	Total/NA
1,2-Dichlorotetrafluoroethane	0.12	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
n-Butane	3.2		0.50	0.31	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.83		0.20	0.062	ppb v/v	1		TO-15	Total/NA
Freon TF	0.066	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
Acetone	37		5.0	2.6	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.28	J	0.50	0.12	ppb v/v	1		TO-15	Total/NA
tert-Butyl alcohol	2.9	J	5.0	1.5	ppb v/v	1		TO-15	Total/NA
n-Hexane	4.7		0.20	0.16	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	3.3		0.50	0.20	ppb v/v	1		TO-15	Total/NA
Chloroform	0.62		0.20	0.052	ppb v/v	1		TO-15	Total/NA
1,1,1-Trichloroethane	0.15	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Cyclohexane	1.2		0.20	0.063	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.028	J	0.035	0.024	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	2.3		0.20	0.088	ppb v/v	1		TO-15	Total/NA
Benzene	2.1		0.20	0.071	ppb v/v	1		TO-15	Total/NA
n-Heptane	4.8		0.20	0.14	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.092		0.035	0.030	ppb v/v	1		TO-15	Total/NA
methyl isobutyl ketone	0.63		0.50	0.36	ppb v/v	1		TO-15	Total/NA
Toluene	17		0.20	0.069	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	2.8		0.20	0.029	ppb v/v	1		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	1.1		0.50	0.42	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	4.2		0.20	0.073	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	11		0.50	0.070	ppb v/v	1		TO-15	Total/NA
Xylene, o-	4.0		0.20	0.071	ppb v/v	1		TO-15	Total/NA
Xylene (total)	15		0.70	0.14	ppb v/v	1		TO-15	Total/NA
Styrene	0.13	J	0.20	0.086	ppb v/v	1		TO-15	Total/NA
Cumene	0.22		0.20	0.059	ppb v/v	1		TO-15	Total/NA
n-Propylbenzene	0.61		0.20	0.069	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.86		0.20	0.069	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.81		0.20	0.058	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	2.5		0.20	0.080	ppb v/v	1		TO-15	Total/NA
sec-Butylbenzene	0.090	J	0.20	0.066	ppb v/v	1		TO-15	Total/NA
4-Isopropyltoluene	0.076	J	0.20	0.075	ppb v/v	1		TO-15	Total/NA
n-Butylbenzene	0.28		0.20	0.080	ppb v/v	1		TO-15	Total/NA
Naphthalene	0.91		0.50	0.31	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	22		2.5	0.99	ug/m3	1		TO-15	Total/NA
Freon 22	3.4		1.8	0.92	ug/m3	1		TO-15	Total/NA
1,2-Dichlorotetrafluoroethane	0.83	J	1.4	0.48	ug/m3	1		TO-15	Total/NA
n-Butane	7.6		1.2	0.74	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-2-SV (Continued)

Lab Sample ID: 200-45845-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	4.7		1.1	0.35	ug/m3	1		TO-15	Total/NA
Freon TF	0.50	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
Acetone	88		12	6.2	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.87	J	1.6	0.37	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol	8.9	J	15	4.5	ug/m3	1		TO-15	Total/NA
n-Hexane	16		0.70	0.56	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	9.7		1.5	0.59	ug/m3	1		TO-15	Total/NA
Chloroform	3.0		0.98	0.25	ug/m3	1		TO-15	Total/NA
1,1,1-Trichloroethane	0.81	J	1.1	0.37	ug/m3	1		TO-15	Total/NA
Cyclohexane	4.1		0.69	0.22	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.17	J	0.22	0.15	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	11		0.93	0.41	ug/m3	1		TO-15	Total/NA
Benzene	6.7		0.64	0.23	ug/m3	1		TO-15	Total/NA
n-Heptane	20		0.82	0.57	ug/m3	1		TO-15	Total/NA
Trichloroethene	0.49		0.19	0.16	ug/m3	1		TO-15	Total/NA
methyl isobutyl ketone	2.6		2.0	1.5	ug/m3	1		TO-15	Total/NA
Toluene	63		0.75	0.26	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	19		1.4	0.20	ug/m3	1		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	4.5		2.0	1.7	ug/m3	1		TO-15	Total/NA
Ethylbenzene	18		0.87	0.32	ug/m3	1		TO-15	Total/NA
m,p-Xylene	50		2.2	0.30	ug/m3	1		TO-15	Total/NA
Xylene, o-	17		0.87	0.31	ug/m3	1		TO-15	Total/NA
Xylene (total)	65		3.0	0.61	ug/m3	1		TO-15	Total/NA
Styrene	0.56	J	0.85	0.37	ug/m3	1		TO-15	Total/NA
Cumene	1.1		0.98	0.29	ug/m3	1		TO-15	Total/NA
n-Propylbenzene	3.0		0.98	0.34	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	4.2		0.98	0.34	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	4.0		0.98	0.29	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	12		0.98	0.39	ug/m3	1		TO-15	Total/NA
sec-Butylbenzene	0.50	J	1.1	0.36	ug/m3	1		TO-15	Total/NA
4-Isopropyltoluene	0.42	J	1.1	0.41	ug/m3	1		TO-15	Total/NA
n-Butylbenzene	1.5		1.1	0.44	ug/m3	1		TO-15	Total/NA
Naphthalene	4.8		2.6	1.6	ug/m3	1		TO-15	Total/NA

Client Sample ID: RSB-5-SV

Lab Sample ID: 200-45845-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	3.5		0.50	0.20	ppb v/v	1		TO-15	Total/NA
Freon 22	2.6		0.50	0.26	ppb v/v	1		TO-15	Total/NA
n-Butane	80	E	0.50	0.31	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	2.5		0.20	0.065	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.76		0.20	0.062	ppb v/v	1		TO-15	Total/NA
Freon TF	0.074	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
Acetone	180	E	5.0	2.6	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	2.0	J	5.0	1.8	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	2.0		0.50	0.12	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.36	J	0.50	0.20	ppb v/v	1		TO-15	Total/NA
tert-Butyl alcohol	2.4	J	5.0	1.5	ppb v/v	1		TO-15	Total/NA
n-Hexane	5.5		0.20	0.16	ppb v/v	1		TO-15	Total/NA
1,1-Dichloroethane	0.11	J	0.20	0.026	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-5-SV (Continued)

Lab Sample ID: 200-45845-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Ethyl Ketone	8.0		0.50	0.20	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	0.39		0.035	0.037	ppb v/v	1		TO-15	Total/NA
1,2-Dichloroethene, Total	0.39	J	0.40	0.11	ppb v/v	1		TO-15	Total/NA
Chloroform	1.1		0.20	0.052	ppb v/v	1		TO-15	Total/NA
1,1,1-Trichloroethane	0.32		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Cyclohexane	1.3		0.20	0.063	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.053		0.035	0.024	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	2.1		0.20	0.088	ppb v/v	1		TO-15	Total/NA
Benzene	2.4		0.20	0.071	ppb v/v	1		TO-15	Total/NA
n-Heptane	3.5		0.20	0.14	ppb v/v	1		TO-15	Total/NA
Trichloroethene	1.8		0.035	0.030	ppb v/v	1		TO-15	Total/NA
methyl isobutyl ketone	0.63		0.50	0.36	ppb v/v	1		TO-15	Total/NA
Toluene	12		0.20	0.069	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	2.4		0.20	0.029	ppb v/v	1		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	0.52		0.50	0.42	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	1.6		0.20	0.073	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	4.3		0.50	0.070	ppb v/v	1		TO-15	Total/NA
Xylene, o-	1.3		0.20	0.071	ppb v/v	1		TO-15	Total/NA
Xylene (total)	5.6		0.70	0.14	ppb v/v	1		TO-15	Total/NA
Cumene	0.074	J	0.20	0.059	ppb v/v	1		TO-15	Total/NA
n-Propylbenzene	0.14	J	0.20	0.069	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.16	J	0.20	0.069	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.20		0.20	0.058	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.65		0.20	0.080	ppb v/v	1		TO-15	Total/NA
1,3-Dichlorobenzene	0.10	J	0.20	0.082	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	17		2.5	0.99	ug/m3	1		TO-15	Total/NA
Freon 22	9.0		1.8	0.92	ug/m3	1		TO-15	Total/NA
n-Butane	190	E	1.2	0.74	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	5.5		0.44	0.14	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	4.2		1.1	0.35	ug/m3	1		TO-15	Total/NA
Freon TF	0.57	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
Acetone	420	E	12	6.2	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	4.9	J	12	4.4	ug/m3	1		TO-15	Total/NA
Carbon disulfide	6.1		1.6	0.37	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.2	J	1.7	0.69	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol	7.2	J	15	4.5	ug/m3	1		TO-15	Total/NA
n-Hexane	19		0.70	0.56	ug/m3	1		TO-15	Total/NA
1,1-Dichloroethane	0.44	J	0.81	0.11	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	24		1.5	0.59	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	1.5		0.14	0.15	ug/m3	1		TO-15	Total/NA
1,2-Dichloroethene, Total	1.5	J	1.6	0.44	ug/m3	1		TO-15	Total/NA
Chloroform	5.6		0.98	0.25	ug/m3	1		TO-15	Total/NA
1,1,1-Trichloroethane	1.7		1.1	0.37	ug/m3	1		TO-15	Total/NA
Cyclohexane	4.6		0.69	0.22	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.33		0.22	0.15	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	9.9		0.93	0.41	ug/m3	1		TO-15	Total/NA
Benzene	7.6		0.64	0.23	ug/m3	1		TO-15	Total/NA
n-Heptane	14		0.82	0.57	ug/m3	1		TO-15	Total/NA
Trichloroethene	9.8		0.19	0.16	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-5-SV (Continued)

Lab Sample ID: 200-45845-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
methyl isobutyl ketone	2.6		2.0	1.5	ug/m3	1		TO-15	Total/NA
Toluene	45		0.75	0.26	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	17		1.4	0.20	ug/m3	1		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	2.1		2.0	1.7	ug/m3	1		TO-15	Total/NA
Ethylbenzene	7.1		0.87	0.32	ug/m3	1		TO-15	Total/NA
m,p-Xylene	19		2.2	0.30	ug/m3	1		TO-15	Total/NA
Xylene, o-	5.7		0.87	0.31	ug/m3	1		TO-15	Total/NA
Xylene (total)	24		3.0	0.61	ug/m3	1		TO-15	Total/NA
Cumene	0.37	J	0.98	0.29	ug/m3	1		TO-15	Total/NA
n-Propylbenzene	0.69	J	0.98	0.34	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.81	J	0.98	0.34	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	1.0		0.98	0.29	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	3.2		0.98	0.39	ug/m3	1		TO-15	Total/NA
1,3-Dichlorobenzene	0.61	J	1.2	0.49	ug/m3	1		TO-15	Total/NA

Client Sample ID: RSB-1-SV

Lab Sample ID: 200-45845-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.0		0.50	0.20	ppb v/v	1		TO-15	Total/NA
Freon 22	1.9		0.50	0.26	ppb v/v	1		TO-15	Total/NA
1,2-Dichlorotetrafluoroethane	0.39		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.42	J	0.50	0.25	ppb v/v	1		TO-15	Total/NA
n-Butane	63	E	0.50	0.31	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	4.4		0.20	0.065	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.61		0.20	0.062	ppb v/v	1		TO-15	Total/NA
Freon TF	0.087	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
Acetone	86	E	5.0	2.6	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	4.8		0.50	0.12	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	1.7		0.50	0.20	ppb v/v	1		TO-15	Total/NA
tert-Butyl alcohol	15		5.0	1.5	ppb v/v	1		TO-15	Total/NA
n-Hexane	13		0.20	0.16	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	4.8		0.50	0.20	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	0.42		0.035	0.037	ppb v/v	1		TO-15	Total/NA
1,2-Dichloroethene, Total	0.42		0.40	0.11	ppb v/v	1		TO-15	Total/NA
Chloroform	130	E	0.20	0.052	ppb v/v	1		TO-15	Total/NA
1,1,1-Trichloroethane	0.32		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Cyclohexane	5.6		0.20	0.063	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.20		0.035	0.024	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	2.1		0.20	0.088	ppb v/v	1		TO-15	Total/NA
Benzene	4.4		0.20	0.071	ppb v/v	1		TO-15	Total/NA
n-Heptane	13		0.20	0.14	ppb v/v	1		TO-15	Total/NA
Trichloroethene	2.5		0.035	0.030	ppb v/v	1		TO-15	Total/NA
Bromodichloromethane	1.7		0.20	0.094	ppb v/v	1		TO-15	Total/NA
Toluene	12		0.20	0.069	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	1.1		0.20	0.029	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	1.7		0.20	0.073	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	17		0.50	0.070	ppb v/v	1		TO-15	Total/NA
Xylene, o-	2.1		0.20	0.071	ppb v/v	1		TO-15	Total/NA
Xylene (total)	19		0.70	0.14	ppb v/v	1		TO-15	Total/NA
Cumene	0.091	J	0.20	0.059	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-1-SV (Continued)

Lab Sample ID: 200-45845-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Propylbenzene	0.096	J	0.20	0.069	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.14	J	0.20	0.069	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.27		0.20	0.058	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.43		0.20	0.080	ppb v/v	1		TO-15	Total/NA
1,3-Dichlorobenzene	0.13	J	0.20	0.082	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.069	J	0.20	0.065	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	10		2.5	0.99	ug/m3	1		TO-15	Total/NA
Freon 22	6.5		1.8	0.92	ug/m3	1		TO-15	Total/NA
1,2-Dichlorotetrafluoroethane	2.7		1.4	0.48	ug/m3	1		TO-15	Total/NA
Chloromethane	0.86	J	1.0	0.52	ug/m3	1		TO-15	Total/NA
n-Butane	150	E	1.2	0.74	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	9.8		0.44	0.14	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	3.4		1.1	0.35	ug/m3	1		TO-15	Total/NA
Freon TF	0.67	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
Acetone	200	E	12	6.2	ug/m3	1		TO-15	Total/NA
Carbon disulfide	15		1.6	0.37	ug/m3	1		TO-15	Total/NA
Methylene Chloride	6.0		1.7	0.69	ug/m3	1		TO-15	Total/NA
tert-Butyl alcohol	46		15	4.5	ug/m3	1		TO-15	Total/NA
n-Hexane	45		0.70	0.56	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	14		1.5	0.59	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	1.7		0.14	0.15	ug/m3	1		TO-15	Total/NA
1,2-Dichloroethene, Total	1.7		1.6	0.44	ug/m3	1		TO-15	Total/NA
Chloroform	650	E	0.98	0.25	ug/m3	1		TO-15	Total/NA
1,1,1-Trichloroethane	1.7		1.1	0.37	ug/m3	1		TO-15	Total/NA
Cyclohexane	19		0.69	0.22	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	1.2		0.22	0.15	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	9.9		0.93	0.41	ug/m3	1		TO-15	Total/NA
Benzene	14		0.64	0.23	ug/m3	1		TO-15	Total/NA
n-Heptane	54		0.82	0.57	ug/m3	1		TO-15	Total/NA
Trichloroethene	13		0.19	0.16	ug/m3	1		TO-15	Total/NA
Bromodichloromethane	11		1.3	0.63	ug/m3	1		TO-15	Total/NA
Toluene	46		0.75	0.26	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	7.2		1.4	0.20	ug/m3	1		TO-15	Total/NA
Ethylbenzene	7.3		0.87	0.32	ug/m3	1		TO-15	Total/NA
m,p-Xylene	72		2.2	0.30	ug/m3	1		TO-15	Total/NA
Xylene, o-	9.3		0.87	0.31	ug/m3	1		TO-15	Total/NA
Xylene (total)	83		3.0	0.61	ug/m3	1		TO-15	Total/NA
Cumene	0.45	J	0.98	0.29	ug/m3	1		TO-15	Total/NA
n-Propylbenzene	0.47	J	0.98	0.34	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.68	J	0.98	0.34	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	1.3		0.98	0.29	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	2.1		0.98	0.39	ug/m3	1		TO-15	Total/NA
1,3-Dichlorobenzene	0.78	J	1.2	0.49	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.41	J	1.2	0.39	ug/m3	1		TO-15	Total/NA

Client Sample ID: AMB-1

Lab Sample ID: 200-45845-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.26	J	0.50	0.20	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: AMB-1 (Continued)

Lab Sample ID: 200-45845-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Freon 22	0.37	J	0.50	0.26	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.41	J	0.50	0.25	ppb v/v	1		TO-15	Total/NA
n-Butane	1.5		0.50	0.31	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.062	ppb v/v	1		TO-15	Total/NA
Freon TF	0.055	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
Acetone	3.3	J	5.0	2.6	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.29	J	0.50	0.20	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.17	J	0.20	0.16	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	0.27	J	0.50	0.20	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.053		0.035	0.024	ppb v/v	1		TO-15	Total/NA
Benzene	0.19	J	0.20	0.071	ppb v/v	1		TO-15	Total/NA
Toluene	0.36		0.20	0.069	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.081	J	0.50	0.070	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.3	J	2.5	0.99	ug/m3	1		TO-15	Total/NA
Freon 22	1.3	J	1.8	0.92	ug/m3	1		TO-15	Total/NA
Chloromethane	0.84	J	1.0	0.52	ug/m3	1		TO-15	Total/NA
n-Butane	3.6		1.2	0.74	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.35	ug/m3	1		TO-15	Total/NA
Freon TF	0.42	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
Acetone	8.0	J	12	6.2	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.0	J	1.7	0.69	ug/m3	1		TO-15	Total/NA
n-Hexane	0.61	J	0.70	0.56	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	0.79	J	1.5	0.59	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.33		0.22	0.15	ug/m3	1		TO-15	Total/NA
Benzene	0.62	J	0.64	0.23	ug/m3	1		TO-15	Total/NA
Toluene	1.3		0.75	0.26	ug/m3	1		TO-15	Total/NA
m,p-Xylene	0.35	J	2.2	0.30	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-4-SV

Date Collected: 10/19/18 10:33

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Lab Sample ID: 200-45845-1

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.82		0.50	0.20	ppb v/v			10/29/18 18:32	1
Freon 22	1.0		0.50	0.26	ppb v/v			10/29/18 18:32	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.068	ppb v/v			10/29/18 18:32	1
Chloromethane	0.50	U	0.50	0.25	ppb v/v			10/29/18 18:32	1
n-Butane	14		0.50	0.31	ppb v/v			10/29/18 18:32	1
Vinyl chloride	0.035	U	0.035	0.041	ppb v/v			10/29/18 18:32	1
1,3-Butadiene	0.49		0.20	0.065	ppb v/v			10/29/18 18:32	1
Bromomethane	0.20	U	0.20	0.062	ppb v/v			10/29/18 18:32	1
Chloroethane	0.50	U	0.50	0.21	ppb v/v			10/29/18 18:32	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.056	ppb v/v			10/29/18 18:32	1
Trichlorofluoromethane	0.83		0.20	0.062	ppb v/v			10/29/18 18:32	1
Freon TF	0.20	U	0.20	0.031	ppb v/v			10/29/18 18:32	1
1,1-Dichloroethene	0.035	U	0.035	0.034	ppb v/v			10/29/18 18:32	1
Acetone	36		5.0	2.6	ppb v/v			10/29/18 18:32	1
Isopropyl alcohol	5.0	U	5.0	1.8	ppb v/v			10/29/18 18:32	1
Carbon disulfide	0.83		0.50	0.12	ppb v/v			10/29/18 18:32	1
3-Chloropropene	0.50	U	0.50	0.27	ppb v/v			10/29/18 18:32	1
Methylene Chloride	0.50	U	0.50	0.20	ppb v/v			10/29/18 18:32	1
tert-Butyl alcohol	3.6	J	5.0	1.5	ppb v/v			10/29/18 18:32	1
Methyl tert-butyl ether	0.20	U	0.20	0.061	ppb v/v			10/29/18 18:32	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.074	ppb v/v			10/29/18 18:32	1
n-Hexane	5.3		0.20	0.16	ppb v/v			10/29/18 18:32	1
1,1-Dichloroethane	0.20	U	0.20	0.026	ppb v/v			10/29/18 18:32	1
Methyl Ethyl Ketone	3.8		0.50	0.20	ppb v/v			10/29/18 18:32	1
cis-1,2-Dichloroethene	0.035	U	0.035	0.037	ppb v/v			10/29/18 18:32	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.11	ppb v/v			10/29/18 18:32	1
Chloroform	0.78		0.20	0.052	ppb v/v			10/29/18 18:32	1
Tetrahydrofuran	5.0	U	5.0	2.6	ppb v/v			10/29/18 18:32	1
1,1,1-Trichloroethane	0.20	U	0.20	0.068	ppb v/v			10/29/18 18:32	1
Cyclohexane	1.2		0.20	0.063	ppb v/v			10/29/18 18:32	1
Carbon tetrachloride	0.031	J	0.035	0.024	ppb v/v			10/29/18 18:32	1
2,2,4-Trimethylpentane	2.3		0.20	0.088	ppb v/v			10/29/18 18:32	1
Benzene	2.1		0.20	0.071	ppb v/v			10/29/18 18:32	1
1,2-Dichloroethane	0.20	U	0.20	0.063	ppb v/v			10/29/18 18:32	1
n-Heptane	3.3		0.20	0.14	ppb v/v			10/29/18 18:32	1
Trichloroethene	0.76		0.035	0.030	ppb v/v			10/29/18 18:32	1
Methyl methacrylate	0.50	U *	0.50	0.22	ppb v/v			10/29/18 18:32	1
1,2-Dichloropropane	0.20	U *	0.20	0.12	ppb v/v			10/29/18 18:32	1
1,4-Dioxane	5.0	U	5.0	1.3	ppb v/v			10/29/18 18:32	1
Bromodichloromethane	0.20	U	0.20	0.094	ppb v/v			10/29/18 18:32	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.098	ppb v/v			10/29/18 18:32	1
methyl isobutyl ketone	0.50	U	0.50	0.36	ppb v/v			10/29/18 18:32	1
Toluene	16		0.20	0.069	ppb v/v			10/29/18 18:32	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.12	ppb v/v			10/29/18 18:32	1
1,1,2-Trichloroethane	0.20	U	0.20	0.078	ppb v/v			10/29/18 18:32	1
Tetrachloroethene	1.8		0.20	0.029	ppb v/v			10/29/18 18:32	1
Methyl Butyl Ketone (2-Hexanone)	1.4		0.50	0.42	ppb v/v			10/29/18 18:32	1
Dibromochloromethane	0.20	U	0.20	0.071	ppb v/v			10/29/18 18:32	1

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-4-SV

Lab Sample ID: 200-45845-1

Date Collected: 10/19/18 10:33

Matrix: Air

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.20	U	0.20	0.069	ppb v/v			10/29/18 18:32	1
Chlorobenzene	0.20	U	0.20	0.040	ppb v/v			10/29/18 18:32	1
Ethylbenzene	4.4		0.20	0.073	ppb v/v			10/29/18 18:32	1
m,p-Xylene	11		0.50	0.070	ppb v/v			10/29/18 18:32	1
Xylene, o-	3.9		0.20	0.071	ppb v/v			10/29/18 18:32	1
Xylene (total)	15		0.70	0.14	ppb v/v			10/29/18 18:32	1
Styrene	0.24		0.20	0.086	ppb v/v			10/29/18 18:32	1
Bromoform	0.20	U	0.20	0.086	ppb v/v			10/29/18 18:32	1
Cumene	0.20	U	0.20	0.059	ppb v/v			10/29/18 18:32	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.076	ppb v/v			10/29/18 18:32	1
n-Propylbenzene	0.51		0.20	0.069	ppb v/v			10/29/18 18:32	1
4-Ethyltoluene	0.54		0.20	0.069	ppb v/v			10/29/18 18:32	1
1,3,5-Trimethylbenzene	0.64		0.20	0.058	ppb v/v			10/29/18 18:32	1
2-Chlorotoluene	0.20	U	0.20	0.071	ppb v/v			10/29/18 18:32	1
tert-Butylbenzene	0.20	U	0.20	0.058	ppb v/v			10/29/18 18:32	1
1,2,4-Trimethylbenzene	2.0		0.20	0.080	ppb v/v			10/29/18 18:32	1
sec-Butylbenzene	0.20	U	0.20	0.066	ppb v/v			10/29/18 18:32	1
4-Isopropyltoluene	0.20	U	0.20	0.075	ppb v/v			10/29/18 18:32	1
1,3-Dichlorobenzene	0.20	U	0.20	0.082	ppb v/v			10/29/18 18:32	1
1,4-Dichlorobenzene	0.20	U	0.20	0.065	ppb v/v			10/29/18 18:32	1
Benzyl chloride	0.20	U	0.20	0.12	ppb v/v			10/29/18 18:32	1
n-Butylbenzene	0.10	J	0.20	0.080	ppb v/v			10/29/18 18:32	1
1,2-Dichlorobenzene	0.20	U	0.20	0.071	ppb v/v			10/29/18 18:32	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.24	ppb v/v			10/29/18 18:32	1
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			10/29/18 18:32	1
Naphthalene	0.50	U	0.50	0.31	ppb v/v			10/29/18 18:32	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	4.0		2.5	0.99	ug/m3			10/29/18 18:32	1
Freon 22	3.6		1.8	0.92	ug/m3			10/29/18 18:32	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.48	ug/m3			10/29/18 18:32	1
Chloromethane	1.0	U	1.0	0.52	ug/m3			10/29/18 18:32	1
n-Butane	34		1.2	0.74	ug/m3			10/29/18 18:32	1
Vinyl chloride	0.089	U	0.089	0.10	ug/m3			10/29/18 18:32	1
1,3-Butadiene	1.1		0.44	0.14	ug/m3			10/29/18 18:32	1
Bromomethane	0.78	U	0.78	0.24	ug/m3			10/29/18 18:32	1
Chloroethane	1.3	U	1.3	0.55	ug/m3			10/29/18 18:32	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.24	ug/m3			10/29/18 18:32	1
Trichlorofluoromethane	4.6		1.1	0.35	ug/m3			10/29/18 18:32	1
Freon TF	1.5	U	1.5	0.24	ug/m3			10/29/18 18:32	1
1,1-Dichloroethene	0.14	U	0.14	0.13	ug/m3			10/29/18 18:32	1
Acetone	85		12	6.2	ug/m3			10/29/18 18:32	1
Isopropyl alcohol	12	U	12	4.4	ug/m3			10/29/18 18:32	1
Carbon disulfide	2.6		1.6	0.37	ug/m3			10/29/18 18:32	1
3-Chloropropene	1.6	U	1.6	0.85	ug/m3			10/29/18 18:32	1
Methylene Chloride	1.7	U	1.7	0.69	ug/m3			10/29/18 18:32	1
tert-Butyl alcohol	11	J	15	4.5	ug/m3			10/29/18 18:32	1
Methyl tert-butyl ether	0.72	U	0.72	0.22	ug/m3			10/29/18 18:32	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.29	ug/m3			10/29/18 18:32	1

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-4-SV

Lab Sample ID: 200-45845-1

Date Collected: 10/19/18 10:33

Matrix: Air

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Hexane	19		0.70	0.56	ug/m3			10/29/18 18:32	1
1,1-Dichloroethane	0.81	U	0.81	0.11	ug/m3			10/29/18 18:32	1
Methyl Ethyl Ketone	11		1.5	0.59	ug/m3			10/29/18 18:32	1
cis-1,2-Dichloroethene	0.14	U	0.14	0.15	ug/m3			10/29/18 18:32	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.44	ug/m3			10/29/18 18:32	1
Chloroform	3.8		0.98	0.25	ug/m3			10/29/18 18:32	1
Tetrahydrofuran	15	U	15	7.7	ug/m3			10/29/18 18:32	1
1,1,1-Trichloroethane	1.1	U	1.1	0.37	ug/m3			10/29/18 18:32	1
Cyclohexane	4.1		0.69	0.22	ug/m3			10/29/18 18:32	1
Carbon tetrachloride	0.19	J	0.22	0.15	ug/m3			10/29/18 18:32	1
2,2,4-Trimethylpentane	11		0.93	0.41	ug/m3			10/29/18 18:32	1
Benzene	6.8		0.64	0.23	ug/m3			10/29/18 18:32	1
1,2-Dichloroethane	0.81	U	0.81	0.25	ug/m3			10/29/18 18:32	1
n-Heptane	14		0.82	0.57	ug/m3			10/29/18 18:32	1
Trichloroethene	4.1		0.19	0.16	ug/m3			10/29/18 18:32	1
Methyl methacrylate	2.0	U *	2.0	0.90	ug/m3			10/29/18 18:32	1
1,2-Dichloropropane	0.92	U *	0.92	0.55	ug/m3			10/29/18 18:32	1
1,4-Dioxane	18	U	18	4.7	ug/m3			10/29/18 18:32	1
Bromodichloromethane	1.3	U	1.3	0.63	ug/m3			10/29/18 18:32	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.44	ug/m3			10/29/18 18:32	1
methyl isobutyl ketone	2.0	U	2.0	1.5	ug/m3			10/29/18 18:32	1
Toluene	61		0.75	0.26	ug/m3			10/29/18 18:32	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.54	ug/m3			10/29/18 18:32	1
1,1,2-Trichloroethane	1.1	U	1.1	0.43	ug/m3			10/29/18 18:32	1
Tetrachloroethene	13		1.4	0.20	ug/m3			10/29/18 18:32	1
Methyl Butyl Ketone (2-Hexanone)	5.6		2.0	1.7	ug/m3			10/29/18 18:32	1
Dibromochloromethane	1.7	U	1.7	0.60	ug/m3			10/29/18 18:32	1
1,2-Dibromoethane	1.5	U	1.5	0.53	ug/m3			10/29/18 18:32	1
Chlorobenzene	0.92	U	0.92	0.18	ug/m3			10/29/18 18:32	1
Ethylbenzene	19		0.87	0.32	ug/m3			10/29/18 18:32	1
m,p-Xylene	47		2.2	0.30	ug/m3			10/29/18 18:32	1
Xylene, o-	17		0.87	0.31	ug/m3			10/29/18 18:32	1
Xylene (total)	65		3.0	0.61	ug/m3			10/29/18 18:32	1
Styrene	1.0		0.85	0.37	ug/m3			10/29/18 18:32	1
Bromoform	2.1	U	2.1	0.89	ug/m3			10/29/18 18:32	1
Cumene	0.98	U	0.98	0.29	ug/m3			10/29/18 18:32	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.52	ug/m3			10/29/18 18:32	1
n-Propylbenzene	2.5		0.98	0.34	ug/m3			10/29/18 18:32	1
4-Ethyltoluene	2.7		0.98	0.34	ug/m3			10/29/18 18:32	1
1,3,5-Trimethylbenzene	3.1		0.98	0.29	ug/m3			10/29/18 18:32	1
2-Chlorotoluene	1.0	U	1.0	0.37	ug/m3			10/29/18 18:32	1
tert-Butylbenzene	1.1	U	1.1	0.32	ug/m3			10/29/18 18:32	1
1,2,4-Trimethylbenzene	9.8		0.98	0.39	ug/m3			10/29/18 18:32	1
sec-Butylbenzene	1.1	U	1.1	0.36	ug/m3			10/29/18 18:32	1
4-Isopropyltoluene	1.1	U	1.1	0.41	ug/m3			10/29/18 18:32	1
1,3-Dichlorobenzene	1.2	U	1.2	0.49	ug/m3			10/29/18 18:32	1
1,4-Dichlorobenzene	1.2	U	1.2	0.39	ug/m3			10/29/18 18:32	1
Benzyl chloride	1.0	U	1.0	0.62	ug/m3			10/29/18 18:32	1

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-4-SV

Date Collected: 10/19/18 10:33

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Lab Sample ID: 200-45845-1

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	0.55	J	1.1	0.44	ug/m3			10/29/18 18:32	1
1,2-Dichlorobenzene	1.2	U	1.2	0.43	ug/m3			10/29/18 18:32	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.8	ug/m3			10/29/18 18:32	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			10/29/18 18:32	1
Naphthalene	2.6	U	2.6	1.6	ug/m3			10/29/18 18:32	1

Client Sample ID: RSB-6-SV

Date Collected: 10/19/18 10:45

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Lab Sample ID: 200-45845-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.62		0.50	0.20	ppb v/v			10/29/18 19:24	1
Freon 22	0.76		0.50	0.26	ppb v/v			10/29/18 19:24	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.068	ppb v/v			10/29/18 19:24	1
Chloromethane	0.50	U	0.50	0.25	ppb v/v			10/29/18 19:24	1
n-Butane	2.3		0.50	0.31	ppb v/v			10/29/18 19:24	1
Vinyl chloride	0.035	U	0.035	0.041	ppb v/v			10/29/18 19:24	1
1,3-Butadiene	0.97		0.20	0.065	ppb v/v			10/29/18 19:24	1
Bromomethane	0.20	U	0.20	0.062	ppb v/v			10/29/18 19:24	1
Chloroethane	0.50	U	0.50	0.21	ppb v/v			10/29/18 19:24	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.056	ppb v/v			10/29/18 19:24	1
Trichlorofluoromethane	0.48		0.20	0.062	ppb v/v			10/29/18 19:24	1
Freon TF	0.20	U	0.20	0.031	ppb v/v			10/29/18 19:24	1
1,1-Dichloroethene	0.035	U	0.035	0.034	ppb v/v			10/29/18 19:24	1
Acetone	120	E	5.0	2.6	ppb v/v			10/29/18 19:24	1
Isopropyl alcohol	5.0	U	5.0	1.8	ppb v/v			10/29/18 19:24	1
Carbon disulfide	2.7		0.50	0.12	ppb v/v			10/29/18 19:24	1
3-Chloropropene	0.50	U	0.50	0.27	ppb v/v			10/29/18 19:24	1
Methylene Chloride	0.50	U	0.50	0.20	ppb v/v			10/29/18 19:24	1
tert-Butyl alcohol	2.7	J	5.0	1.5	ppb v/v			10/29/18 19:24	1
Methyl tert-butyl ether	0.20	U	0.20	0.061	ppb v/v			10/29/18 19:24	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.074	ppb v/v			10/29/18 19:24	1
n-Hexane	4.1		0.20	0.16	ppb v/v			10/29/18 19:24	1
1,1-Dichloroethane	0.20	U	0.20	0.026	ppb v/v			10/29/18 19:24	1
Methyl Ethyl Ketone	8.7		0.50	0.20	ppb v/v			10/29/18 19:24	1
cis-1,2-Dichloroethene	0.035	U	0.035	0.037	ppb v/v			10/29/18 19:24	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.11	ppb v/v			10/29/18 19:24	1
Chloroform	1.7		0.20	0.052	ppb v/v			10/29/18 19:24	1
Tetrahydrofuran	5.0	U	5.0	2.6	ppb v/v			10/29/18 19:24	1
1,1,1-Trichloroethane	0.20	U	0.20	0.068	ppb v/v			10/29/18 19:24	1
Cyclohexane	1.2		0.20	0.063	ppb v/v			10/29/18 19:24	1
Carbon tetrachloride	0.069		0.035	0.024	ppb v/v			10/29/18 19:24	1
2,2,4-Trimethylpentane	2.6		0.20	0.088	ppb v/v			10/29/18 19:24	1
Benzene	2.5		0.20	0.071	ppb v/v			10/29/18 19:24	1
1,2-Dichloroethane	0.20	U	0.20	0.063	ppb v/v			10/29/18 19:24	1
n-Heptane	3.9		0.20	0.14	ppb v/v			10/29/18 19:24	1
Trichloroethene	0.80		0.035	0.030	ppb v/v			10/29/18 19:24	1

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-6-SV

Lab Sample ID: 200-45845-2

Date Collected: 10/19/18 10:45

Matrix: Air

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl methacrylate	0.50	U *	0.50	0.22	ppb v/v			10/29/18 19:24	1
1,2-Dichloropropane	0.20	U *	0.20	0.12	ppb v/v			10/29/18 19:24	1
1,4-Dioxane	5.0	U	5.0	1.3	ppb v/v			10/29/18 19:24	1
Bromodichloromethane	0.20	U	0.20	0.094	ppb v/v			10/29/18 19:24	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.098	ppb v/v			10/29/18 19:24	1
methyl isobutyl ketone	0.42	J	0.50	0.36	ppb v/v			10/29/18 19:24	1
Toluene	22		0.20	0.069	ppb v/v			10/29/18 19:24	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.12	ppb v/v			10/29/18 19:24	1
1,1,2-Trichloroethane	0.20	U	0.20	0.078	ppb v/v			10/29/18 19:24	1
Tetrachloroethene	1.5		0.20	0.029	ppb v/v			10/29/18 19:24	1
Methyl Butyl Ketone (2-Hexanone)	1.4		0.50	0.42	ppb v/v			10/29/18 19:24	1
Dibromochloromethane	0.20	U	0.20	0.071	ppb v/v			10/29/18 19:24	1
1,2-Dibromoethane	0.20	U	0.20	0.069	ppb v/v			10/29/18 19:24	1
Chlorobenzene	0.20	U	0.20	0.040	ppb v/v			10/29/18 19:24	1
Ethylbenzene	4.4		0.20	0.073	ppb v/v			10/29/18 19:24	1
m,p-Xylene	11		0.50	0.070	ppb v/v			10/29/18 19:24	1
Xylene, o-	3.9		0.20	0.071	ppb v/v			10/29/18 19:24	1
Xylene (total)	15		0.70	0.14	ppb v/v			10/29/18 19:24	1
Styrene	0.25		0.20	0.086	ppb v/v			10/29/18 19:24	1
Bromoform	0.20	U	0.20	0.086	ppb v/v			10/29/18 19:24	1
Cumene	0.21		0.20	0.059	ppb v/v			10/29/18 19:24	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.076	ppb v/v			10/29/18 19:24	1
n-Propylbenzene	0.52		0.20	0.069	ppb v/v			10/29/18 19:24	1
4-Ethyltoluene	0.64		0.20	0.069	ppb v/v			10/29/18 19:24	1
1,3,5-Trimethylbenzene	0.66		0.20	0.058	ppb v/v			10/29/18 19:24	1
2-Chlorotoluene	0.20	U	0.20	0.071	ppb v/v			10/29/18 19:24	1
tert-Butylbenzene	0.20	U	0.20	0.058	ppb v/v			10/29/18 19:24	1
1,2,4-Trimethylbenzene	2.2		0.20	0.080	ppb v/v			10/29/18 19:24	1
sec-Butylbenzene	0.20	U	0.20	0.066	ppb v/v			10/29/18 19:24	1
4-Isopropyltoluene	0.20	U	0.20	0.075	ppb v/v			10/29/18 19:24	1
1,3-Dichlorobenzene	0.20	U	0.20	0.082	ppb v/v			10/29/18 19:24	1
1,4-Dichlorobenzene	0.20	U	0.20	0.065	ppb v/v			10/29/18 19:24	1
Benzyl chloride	0.20	U	0.20	0.12	ppb v/v			10/29/18 19:24	1
n-Butylbenzene	0.20	U	0.20	0.080	ppb v/v			10/29/18 19:24	1
1,2-Dichlorobenzene	0.20	U	0.20	0.071	ppb v/v			10/29/18 19:24	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.24	ppb v/v			10/29/18 19:24	1
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			10/29/18 19:24	1
Naphthalene	0.50	U	0.50	0.31	ppb v/v			10/29/18 19:24	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	3.1		2.5	0.99	ug/m3			10/29/18 19:24	1
Freon 22	2.7		1.8	0.92	ug/m3			10/29/18 19:24	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.48	ug/m3			10/29/18 19:24	1
Chloromethane	1.0	U	1.0	0.52	ug/m3			10/29/18 19:24	1
n-Butane	5.6		1.2	0.74	ug/m3			10/29/18 19:24	1
Vinyl chloride	0.089	U	0.089	0.10	ug/m3			10/29/18 19:24	1
1,3-Butadiene	2.2		0.44	0.14	ug/m3			10/29/18 19:24	1
Bromomethane	0.78	U	0.78	0.24	ug/m3			10/29/18 19:24	1
Chloroethane	1.3	U	1.3	0.55	ug/m3			10/29/18 19:24	1

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-6-SV

Lab Sample ID: 200-45845-2

Date Collected: 10/19/18 10:45

Matrix: Air

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.24	ug/m3			10/29/18 19:24	1
Trichlorofluoromethane	2.7		1.1	0.35	ug/m3			10/29/18 19:24	1
Freon TF	1.5	U	1.5	0.24	ug/m3			10/29/18 19:24	1
1,1-Dichloroethene	0.14	U	0.14	0.13	ug/m3			10/29/18 19:24	1
Acetone	290	E	12	6.2	ug/m3			10/29/18 19:24	1
Isopropyl alcohol	12	U	12	4.4	ug/m3			10/29/18 19:24	1
Carbon disulfide	8.4		1.6	0.37	ug/m3			10/29/18 19:24	1
3-Chloropropene	1.6	U	1.6	0.85	ug/m3			10/29/18 19:24	1
Methylene Chloride	1.7	U	1.7	0.69	ug/m3			10/29/18 19:24	1
tert-Butyl alcohol	8.2	J	15	4.5	ug/m3			10/29/18 19:24	1
Methyl tert-butyl ether	0.72	U	0.72	0.22	ug/m3			10/29/18 19:24	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.29	ug/m3			10/29/18 19:24	1
n-Hexane	15		0.70	0.56	ug/m3			10/29/18 19:24	1
1,1-Dichloroethane	0.81	U	0.81	0.11	ug/m3			10/29/18 19:24	1
Methyl Ethyl Ketone	26		1.5	0.59	ug/m3			10/29/18 19:24	1
cis-1,2-Dichloroethene	0.14	U	0.14	0.15	ug/m3			10/29/18 19:24	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.44	ug/m3			10/29/18 19:24	1
Chloroform	8.5		0.98	0.25	ug/m3			10/29/18 19:24	1
Tetrahydrofuran	15	U	15	7.7	ug/m3			10/29/18 19:24	1
1,1,1-Trichloroethane	1.1	U	1.1	0.37	ug/m3			10/29/18 19:24	1
Cyclohexane	4.2		0.69	0.22	ug/m3			10/29/18 19:24	1
Carbon tetrachloride	0.43		0.22	0.15	ug/m3			10/29/18 19:24	1
2,2,4-Trimethylpentane	12		0.93	0.41	ug/m3			10/29/18 19:24	1
Benzene	7.9		0.64	0.23	ug/m3			10/29/18 19:24	1
1,2-Dichloroethane	0.81	U	0.81	0.25	ug/m3			10/29/18 19:24	1
n-Heptane	16		0.82	0.57	ug/m3			10/29/18 19:24	1
Trichloroethene	4.3		0.19	0.16	ug/m3			10/29/18 19:24	1
Methyl methacrylate	2.0	U *	2.0	0.90	ug/m3			10/29/18 19:24	1
1,2-Dichloropropane	0.92	U *	0.92	0.55	ug/m3			10/29/18 19:24	1
1,4-Dioxane	18	U	18	4.7	ug/m3			10/29/18 19:24	1
Bromodichloromethane	1.3	U	1.3	0.63	ug/m3			10/29/18 19:24	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.44	ug/m3			10/29/18 19:24	1
methyl isobutyl ketone	1.7	J	2.0	1.5	ug/m3			10/29/18 19:24	1
Toluene	82		0.75	0.26	ug/m3			10/29/18 19:24	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.54	ug/m3			10/29/18 19:24	1
1,1,2-Trichloroethane	1.1	U	1.1	0.43	ug/m3			10/29/18 19:24	1
Tetrachloroethene	10		1.4	0.20	ug/m3			10/29/18 19:24	1
Methyl Butyl Ketone (2-Hexanone)	5.9		2.0	1.7	ug/m3			10/29/18 19:24	1
Dibromochloromethane	1.7	U	1.7	0.60	ug/m3			10/29/18 19:24	1
1,2-Dibromoethane	1.5	U	1.5	0.53	ug/m3			10/29/18 19:24	1
Chlorobenzene	0.92	U	0.92	0.18	ug/m3			10/29/18 19:24	1
Ethylbenzene	19		0.87	0.32	ug/m3			10/29/18 19:24	1
m,p-Xylene	49		2.2	0.30	ug/m3			10/29/18 19:24	1
Xylene, o-	17		0.87	0.31	ug/m3			10/29/18 19:24	1
Xylene (total)	65		3.0	0.61	ug/m3			10/29/18 19:24	1
Styrene	1.1		0.85	0.37	ug/m3			10/29/18 19:24	1
Bromoform	2.1	U	2.1	0.89	ug/m3			10/29/18 19:24	1
Cumene	1.0		0.98	0.29	ug/m3			10/29/18 19:24	1

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-6-SV

Date Collected: 10/19/18 10:45

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Lab Sample ID: 200-45845-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.52	ug/m3			10/29/18 19:24	1
n-Propylbenzene	2.6		0.98	0.34	ug/m3			10/29/18 19:24	1
4-Ethyltoluene	3.2		0.98	0.34	ug/m3			10/29/18 19:24	1
1,3,5-Trimethylbenzene	3.2		0.98	0.29	ug/m3			10/29/18 19:24	1
2-Chlorotoluene	1.0	U	1.0	0.37	ug/m3			10/29/18 19:24	1
tert-Butylbenzene	1.1	U	1.1	0.32	ug/m3			10/29/18 19:24	1
1,2,4-Trimethylbenzene	11		0.98	0.39	ug/m3			10/29/18 19:24	1
sec-Butylbenzene	1.1	U	1.1	0.36	ug/m3			10/29/18 19:24	1
4-Isopropyltoluene	1.1	U	1.1	0.41	ug/m3			10/29/18 19:24	1
1,3-Dichlorobenzene	1.2	U	1.2	0.49	ug/m3			10/29/18 19:24	1
1,4-Dichlorobenzene	1.2	U	1.2	0.39	ug/m3			10/29/18 19:24	1
Benzyl chloride	1.0	U	1.0	0.62	ug/m3			10/29/18 19:24	1
n-Butylbenzene	1.1	U	1.1	0.44	ug/m3			10/29/18 19:24	1
1,2-Dichlorobenzene	1.2	U	1.2	0.43	ug/m3			10/29/18 19:24	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.8	ug/m3			10/29/18 19:24	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			10/29/18 19:24	1
Naphthalene	2.6	U	2.6	1.6	ug/m3			10/29/18 19:24	1

Client Sample ID: RSB-3-SV

Date Collected: 10/19/18 10:57

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Lab Sample ID: 200-45845-3

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.4		0.50	0.20	ppb v/v			10/29/18 20:16	1
Freon 22	2.5		0.50	0.26	ppb v/v			10/29/18 20:16	1
1,2-Dichlorotetrafluoroethane	0.098	J	0.20	0.068	ppb v/v			10/29/18 20:16	1
Chloromethane	0.50	U	0.50	0.25	ppb v/v			10/29/18 20:16	1
n-Butane	4.8		0.50	0.31	ppb v/v			10/29/18 20:16	1
Vinyl chloride	0.035	U	0.035	0.041	ppb v/v			10/29/18 20:16	1
1,3-Butadiene	0.35		0.20	0.065	ppb v/v			10/29/18 20:16	1
Bromomethane	0.20	U	0.20	0.062	ppb v/v			10/29/18 20:16	1
Chloroethane	0.50	U	0.50	0.21	ppb v/v			10/29/18 20:16	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.056	ppb v/v			10/29/18 20:16	1
Trichlorofluoromethane	0.51		0.20	0.062	ppb v/v			10/29/18 20:16	1
Freon TF	0.20	U	0.20	0.031	ppb v/v			10/29/18 20:16	1
1,1-Dichloroethene	0.035	U	0.035	0.034	ppb v/v			10/29/18 20:16	1
Acetone	62	E	5.0	2.6	ppb v/v			10/29/18 20:16	1
Isopropyl alcohol	5.0	U	5.0	1.8	ppb v/v			10/29/18 20:16	1
Carbon disulfide	2.0		0.50	0.12	ppb v/v			10/29/18 20:16	1
3-Chloropropene	0.50	U	0.50	0.27	ppb v/v			10/29/18 20:16	1
Methylene Chloride	0.50	U	0.50	0.20	ppb v/v			10/29/18 20:16	1
tert-Butyl alcohol	5.0	U	5.0	1.5	ppb v/v			10/29/18 20:16	1
Methyl tert-butyl ether	0.20	U	0.20	0.061	ppb v/v			10/29/18 20:16	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.074	ppb v/v			10/29/18 20:16	1
n-Hexane	0.18	J	0.20	0.16	ppb v/v			10/29/18 20:16	1
1,1-Dichloroethane	0.20	U	0.20	0.026	ppb v/v			10/29/18 20:16	1
Methyl Ethyl Ketone	1.0		0.50	0.20	ppb v/v			10/29/18 20:16	1

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-3-SV

Lab Sample ID: 200-45845-3

Date Collected: 10/19/18 10:57

Matrix: Air

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.20		0.035	0.037	ppb v/v			10/29/18 20:16	1
1,2-Dichloroethene, Total	0.20	J	0.40	0.11	ppb v/v			10/29/18 20:16	1
Chloroform	0.97		0.20	0.052	ppb v/v			10/29/18 20:16	1
Tetrahydrofuran	5.0	U	5.0	2.6	ppb v/v			10/29/18 20:16	1
1,1,1-Trichloroethane	0.20	U	0.20	0.068	ppb v/v			10/29/18 20:16	1
Cyclohexane	0.12	J	0.20	0.063	ppb v/v			10/29/18 20:16	1
Carbon tetrachloride	0.035	U	0.035	0.024	ppb v/v			10/29/18 20:16	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.088	ppb v/v			10/29/18 20:16	1
Benzene	0.20	U	0.20	0.071	ppb v/v			10/29/18 20:16	1
1,2-Dichloroethane	0.20	U	0.20	0.063	ppb v/v			10/29/18 20:16	1
n-Heptane	0.20	U	0.20	0.14	ppb v/v			10/29/18 20:16	1
Trichloroethene	0.26		0.035	0.030	ppb v/v			10/29/18 20:16	1
Methyl methacrylate	0.50	U *	0.50	0.22	ppb v/v			10/29/18 20:16	1
1,2-Dichloropropane	0.20	U *	0.20	0.12	ppb v/v			10/29/18 20:16	1
1,4-Dioxane	5.0	U	5.0	1.3	ppb v/v			10/29/18 20:16	1
Bromodichloromethane	0.20	U	0.20	0.094	ppb v/v			10/29/18 20:16	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.098	ppb v/v			10/29/18 20:16	1
methyl isobutyl ketone	0.50	U	0.50	0.36	ppb v/v			10/29/18 20:16	1
Toluene	0.20	U	0.20	0.069	ppb v/v			10/29/18 20:16	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.12	ppb v/v			10/29/18 20:16	1
1,1,2-Trichloroethane	0.20	U	0.20	0.078	ppb v/v			10/29/18 20:16	1
Tetrachloroethene	0.10	J	0.20	0.029	ppb v/v			10/29/18 20:16	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.42	ppb v/v			10/29/18 20:16	1
Dibromochloromethane	0.20	U	0.20	0.071	ppb v/v			10/29/18 20:16	1
1,2-Dibromoethane	0.20	U	0.20	0.069	ppb v/v			10/29/18 20:16	1
Chlorobenzene	0.20	U	0.20	0.040	ppb v/v			10/29/18 20:16	1
Ethylbenzene	0.20	U	0.20	0.073	ppb v/v			10/29/18 20:16	1
m,p-Xylene	0.50	U	0.50	0.070	ppb v/v			10/29/18 20:16	1
Xylene, o-	0.20	U	0.20	0.071	ppb v/v			10/29/18 20:16	1
Xylene (total)	0.70	U	0.70	0.14	ppb v/v			10/29/18 20:16	1
Styrene	0.20	U	0.20	0.086	ppb v/v			10/29/18 20:16	1
Bromoform	0.20	U	0.20	0.086	ppb v/v			10/29/18 20:16	1
Cumene	0.20	U	0.20	0.059	ppb v/v			10/29/18 20:16	1
1,1,1,2-Tetrachloroethane	0.20	U	0.20	0.076	ppb v/v			10/29/18 20:16	1
n-Propylbenzene	0.20	U	0.20	0.069	ppb v/v			10/29/18 20:16	1
4-Ethyltoluene	0.20	U	0.20	0.069	ppb v/v			10/29/18 20:16	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.058	ppb v/v			10/29/18 20:16	1
2-Chlorotoluene	0.20	U	0.20	0.071	ppb v/v			10/29/18 20:16	1
tert-Butylbenzene	0.20	U	0.20	0.058	ppb v/v			10/29/18 20:16	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.080	ppb v/v			10/29/18 20:16	1
sec-Butylbenzene	0.20	U	0.20	0.066	ppb v/v			10/29/18 20:16	1
4-Isopropyltoluene	0.20	U	0.20	0.075	ppb v/v			10/29/18 20:16	1
1,3-Dichlorobenzene	0.20	U	0.20	0.082	ppb v/v			10/29/18 20:16	1
1,4-Dichlorobenzene	0.20	U	0.20	0.065	ppb v/v			10/29/18 20:16	1
Benzyl chloride	0.20	U	0.20	0.12	ppb v/v			10/29/18 20:16	1
n-Butylbenzene	0.20	U	0.20	0.080	ppb v/v			10/29/18 20:16	1
1,2-Dichlorobenzene	0.20	U	0.20	0.071	ppb v/v			10/29/18 20:16	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.24	ppb v/v			10/29/18 20:16	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-3-SV

Lab Sample ID: 200-45845-3

Date Collected: 10/19/18 10:57

Matrix: Air

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			10/29/18 20:16	1
Naphthalene	0.50	U	0.50	0.31	ppb v/v			10/29/18 20:16	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	6.8		2.5	0.99	ug/m3			10/29/18 20:16	1
Freon 22	9.0		1.8	0.92	ug/m3			10/29/18 20:16	1
1,2-Dichlorotetrafluoroethane	0.68	J	1.4	0.48	ug/m3			10/29/18 20:16	1
Chloromethane	1.0	U	1.0	0.52	ug/m3			10/29/18 20:16	1
n-Butane	11		1.2	0.74	ug/m3			10/29/18 20:16	1
Vinyl chloride	0.089	U	0.089	0.10	ug/m3			10/29/18 20:16	1
1,3-Butadiene	0.77		0.44	0.14	ug/m3			10/29/18 20:16	1
Bromomethane	0.78	U	0.78	0.24	ug/m3			10/29/18 20:16	1
Chloroethane	1.3	U	1.3	0.55	ug/m3			10/29/18 20:16	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.24	ug/m3			10/29/18 20:16	1
Trichlorofluoromethane	2.9		1.1	0.35	ug/m3			10/29/18 20:16	1
Freon TF	1.5	U	1.5	0.24	ug/m3			10/29/18 20:16	1
1,1-Dichloroethene	0.14	U	0.14	0.13	ug/m3			10/29/18 20:16	1
Acetone	150	E	12	6.2	ug/m3			10/29/18 20:16	1
Isopropyl alcohol	12	U	12	4.4	ug/m3			10/29/18 20:16	1
Carbon disulfide	6.3		1.6	0.37	ug/m3			10/29/18 20:16	1
3-Chloropropene	1.6	U	1.6	0.85	ug/m3			10/29/18 20:16	1
Methylene Chloride	1.7	U	1.7	0.69	ug/m3			10/29/18 20:16	1
tert-Butyl alcohol	15	U	15	4.5	ug/m3			10/29/18 20:16	1
Methyl tert-butyl ether	0.72	U	0.72	0.22	ug/m3			10/29/18 20:16	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.29	ug/m3			10/29/18 20:16	1
n-Hexane	0.63	J	0.70	0.56	ug/m3			10/29/18 20:16	1
1,1-Dichloroethane	0.81	U	0.81	0.11	ug/m3			10/29/18 20:16	1
Methyl Ethyl Ketone	3.0		1.5	0.59	ug/m3			10/29/18 20:16	1
cis-1,2-Dichloroethene	0.79		0.14	0.15	ug/m3			10/29/18 20:16	1
1,2-Dichloroethene, Total	0.79	J	1.6	0.44	ug/m3			10/29/18 20:16	1
Chloroform	4.7		0.98	0.25	ug/m3			10/29/18 20:16	1
Tetrahydrofuran	15	U	15	7.7	ug/m3			10/29/18 20:16	1
1,1,1-Trichloroethane	1.1	U	1.1	0.37	ug/m3			10/29/18 20:16	1
Cyclohexane	0.40	J	0.69	0.22	ug/m3			10/29/18 20:16	1
Carbon tetrachloride	0.22	U	0.22	0.15	ug/m3			10/29/18 20:16	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.41	ug/m3			10/29/18 20:16	1
Benzene	0.64	U	0.64	0.23	ug/m3			10/29/18 20:16	1
1,2-Dichloroethane	0.81	U	0.81	0.25	ug/m3			10/29/18 20:16	1
n-Heptane	0.82	U	0.82	0.57	ug/m3			10/29/18 20:16	1
Trichloroethene	1.4		0.19	0.16	ug/m3			10/29/18 20:16	1
Methyl methacrylate	2.0	U *	2.0	0.90	ug/m3			10/29/18 20:16	1
1,2-Dichloropropane	0.92	U *	0.92	0.55	ug/m3			10/29/18 20:16	1
1,4-Dioxane	18	U	18	4.7	ug/m3			10/29/18 20:16	1
Bromodichloromethane	1.3	U	1.3	0.63	ug/m3			10/29/18 20:16	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.44	ug/m3			10/29/18 20:16	1
methyl isobutyl ketone	2.0	U	2.0	1.5	ug/m3			10/29/18 20:16	1
Toluene	0.75	U	0.75	0.26	ug/m3			10/29/18 20:16	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.54	ug/m3			10/29/18 20:16	1
1,1,2-Trichloroethane	1.1	U	1.1	0.43	ug/m3			10/29/18 20:16	1

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-3-SV

Lab Sample ID: 200-45845-3

Date Collected: 10/19/18 10:57

Matrix: Air

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.69	J	1.4	0.20	ug/m3			10/29/18 20:16	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	1.7	ug/m3			10/29/18 20:16	1
Dibromochloromethane	1.7	U	1.7	0.60	ug/m3			10/29/18 20:16	1
1,2-Dibromoethane	1.5	U	1.5	0.53	ug/m3			10/29/18 20:16	1
Chlorobenzene	0.92	U	0.92	0.18	ug/m3			10/29/18 20:16	1
Ethylbenzene	0.87	U	0.87	0.32	ug/m3			10/29/18 20:16	1
m,p-Xylene	2.2	U	2.2	0.30	ug/m3			10/29/18 20:16	1
Xylene, o-	0.87	U	0.87	0.31	ug/m3			10/29/18 20:16	1
Xylene (total)	3.0	U	3.0	0.61	ug/m3			10/29/18 20:16	1
Styrene	0.85	U	0.85	0.37	ug/m3			10/29/18 20:16	1
Bromoform	2.1	U	2.1	0.89	ug/m3			10/29/18 20:16	1
Cumene	0.98	U	0.98	0.29	ug/m3			10/29/18 20:16	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.52	ug/m3			10/29/18 20:16	1
n-Propylbenzene	0.98	U	0.98	0.34	ug/m3			10/29/18 20:16	1
4-Ethyltoluene	0.98	U	0.98	0.34	ug/m3			10/29/18 20:16	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.29	ug/m3			10/29/18 20:16	1
2-Chlorotoluene	1.0	U	1.0	0.37	ug/m3			10/29/18 20:16	1
tert-Butylbenzene	1.1	U	1.1	0.32	ug/m3			10/29/18 20:16	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.39	ug/m3			10/29/18 20:16	1
sec-Butylbenzene	1.1	U	1.1	0.36	ug/m3			10/29/18 20:16	1
4-Isopropyltoluene	1.1	U	1.1	0.41	ug/m3			10/29/18 20:16	1
1,3-Dichlorobenzene	1.2	U	1.2	0.49	ug/m3			10/29/18 20:16	1
1,4-Dichlorobenzene	1.2	U	1.2	0.39	ug/m3			10/29/18 20:16	1
Benzyl chloride	1.0	U	1.0	0.62	ug/m3			10/29/18 20:16	1
n-Butylbenzene	1.1	U	1.1	0.44	ug/m3			10/29/18 20:16	1
1,2-Dichlorobenzene	1.2	U	1.2	0.43	ug/m3			10/29/18 20:16	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.8	ug/m3			10/29/18 20:16	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			10/29/18 20:16	1
Naphthalene	2.6	U	2.6	1.6	ug/m3			10/29/18 20:16	1

Client Sample ID: DUP-20181019

Lab Sample ID: 200-45845-4

Date Collected: 10/19/18 00:00

Matrix: Air

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.6		0.50	0.20	ppb v/v			10/29/18 21:08	1
Freon 22	2.8		0.50	0.26	ppb v/v			10/29/18 21:08	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.068	ppb v/v			10/29/18 21:08	1
Chloromethane	0.50	U	0.50	0.25	ppb v/v			10/29/18 21:08	1
n-Butane	6.1		0.50	0.31	ppb v/v			10/29/18 21:08	1
Vinyl chloride	0.035	U	0.035	0.041	ppb v/v			10/29/18 21:08	1
1,3-Butadiene	0.72		0.20	0.065	ppb v/v			10/29/18 21:08	1
Bromomethane	0.20	U	0.20	0.062	ppb v/v			10/29/18 21:08	1
Chloroethane	0.50	U	0.50	0.21	ppb v/v			10/29/18 21:08	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.056	ppb v/v			10/29/18 21:08	1
Trichlorofluoromethane	0.68		0.20	0.062	ppb v/v			10/29/18 21:08	1
Freon TF	0.20	U	0.20	0.031	ppb v/v			10/29/18 21:08	1

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: DUP-20181019

Lab Sample ID: 200-45845-4

Date Collected: 10/19/18 00:00

Matrix: Air

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.035	U	0.035	0.034	ppb v/v			10/29/18 21:08	1
Acetone	130	E	5.0	2.6	ppb v/v			10/29/18 21:08	1
Isopropyl alcohol	2.3	J	5.0	1.8	ppb v/v			10/29/18 21:08	1
Carbon disulfide	2.5		0.50	0.12	ppb v/v			10/29/18 21:08	1
3-Chloropropene	0.50	U	0.50	0.27	ppb v/v			10/29/18 21:08	1
Methylene Chloride	0.21	J	0.50	0.20	ppb v/v			10/29/18 21:08	1
tert-Butyl alcohol	2.6	J	5.0	1.5	ppb v/v			10/29/18 21:08	1
Methyl tert-butyl ether	0.20	U	0.20	0.061	ppb v/v			10/29/18 21:08	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.074	ppb v/v			10/29/18 21:08	1
n-Hexane	2.0		0.20	0.16	ppb v/v			10/29/18 21:08	1
1,1-Dichloroethane	0.080	J	0.20	0.026	ppb v/v			10/29/18 21:08	1
Methyl Ethyl Ketone	6.8		0.50	0.20	ppb v/v			10/29/18 21:08	1
cis-1,2-Dichloroethene	0.40		0.035	0.037	ppb v/v			10/29/18 21:08	1
1,2-Dichloroethene, Total	0.40		0.40	0.11	ppb v/v			10/29/18 21:08	1
Chloroform	2.3		0.20	0.052	ppb v/v			10/29/18 21:08	1
Tetrahydrofuran	5.0	U	5.0	2.6	ppb v/v			10/29/18 21:08	1
1,1,1-Trichloroethane	0.15	J	0.20	0.068	ppb v/v			10/29/18 21:08	1
Cyclohexane	0.60		0.20	0.063	ppb v/v			10/29/18 21:08	1
Carbon tetrachloride	0.038		0.035	0.024	ppb v/v			10/29/18 21:08	1
2,2,4-Trimethylpentane	1.4		0.20	0.088	ppb v/v			10/29/18 21:08	1
Benzene	1.0		0.20	0.071	ppb v/v			10/29/18 21:08	1
1,2-Dichloroethane	0.20	U	0.20	0.063	ppb v/v			10/29/18 21:08	1
n-Heptane	2.0		0.20	0.14	ppb v/v			10/29/18 21:08	1
Trichloroethene	3.2		0.035	0.030	ppb v/v			10/29/18 21:08	1
Methyl methacrylate	0.50	U *	0.50	0.22	ppb v/v			10/29/18 21:08	1
1,2-Dichloropropane	0.20	U *	0.20	0.12	ppb v/v			10/29/18 21:08	1
1,4-Dioxane	5.0	U	5.0	1.3	ppb v/v			10/29/18 21:08	1
Bromodichloromethane	0.19	J	0.20	0.094	ppb v/v			10/29/18 21:08	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.098	ppb v/v			10/29/18 21:08	1
methyl isobutyl ketone	0.39	J	0.50	0.36	ppb v/v			10/29/18 21:08	1
Toluene	10		0.20	0.069	ppb v/v			10/29/18 21:08	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.12	ppb v/v			10/29/18 21:08	1
1,1,2-Trichloroethane	0.20	U	0.20	0.078	ppb v/v			10/29/18 21:08	1
Tetrachloroethene	11		0.20	0.029	ppb v/v			10/29/18 21:08	1
Methyl Butyl Ketone (2-Hexanone)	0.85		0.50	0.42	ppb v/v			10/29/18 21:08	1
Dibromochloromethane	0.20	U	0.20	0.071	ppb v/v			10/29/18 21:08	1
1,2-Dibromoethane	0.20	U	0.20	0.069	ppb v/v			10/29/18 21:08	1
Chlorobenzene	0.20	U	0.20	0.040	ppb v/v			10/29/18 21:08	1
Ethylbenzene	3.2		0.20	0.073	ppb v/v			10/29/18 21:08	1
m,p-Xylene	9.2		0.50	0.070	ppb v/v			10/29/18 21:08	1
Xylene, o-	3.4		0.20	0.071	ppb v/v			10/29/18 21:08	1
Xylene (total)	13		0.70	0.14	ppb v/v			10/29/18 21:08	1
Styrene	0.25		0.20	0.086	ppb v/v			10/29/18 21:08	1
Bromoform	0.20	U	0.20	0.086	ppb v/v			10/29/18 21:08	1
Cumene	0.20		0.20	0.059	ppb v/v			10/29/18 21:08	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.076	ppb v/v			10/29/18 21:08	1
n-Propylbenzene	0.53		0.20	0.069	ppb v/v			10/29/18 21:08	1
4-Ethyltoluene	0.66		0.20	0.069	ppb v/v			10/29/18 21:08	1

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: DUP-20181019

Lab Sample ID: 200-45845-4

Date Collected: 10/19/18 00:00

Matrix: Air

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	0.70		0.20	0.058	ppb v/v			10/29/18 21:08	1
2-Chlorotoluene	0.20	U	0.20	0.071	ppb v/v			10/29/18 21:08	1
tert-Butylbenzene	0.20	U	0.20	0.058	ppb v/v			10/29/18 21:08	1
1,2,4-Trimethylbenzene	2.6		0.20	0.080	ppb v/v			10/29/18 21:08	1
sec-Butylbenzene	0.089	J	0.20	0.066	ppb v/v			10/29/18 21:08	1
4-Isopropyltoluene	0.11	J	0.20	0.075	ppb v/v			10/29/18 21:08	1
1,3-Dichlorobenzene	0.20	U	0.20	0.082	ppb v/v			10/29/18 21:08	1
1,4-Dichlorobenzene	0.20	U	0.20	0.065	ppb v/v			10/29/18 21:08	1
Benzyl chloride	0.20	U	0.20	0.12	ppb v/v			10/29/18 21:08	1
n-Butylbenzene	0.19	J	0.20	0.080	ppb v/v			10/29/18 21:08	1
1,2-Dichlorobenzene	0.20	U	0.20	0.071	ppb v/v			10/29/18 21:08	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.24	ppb v/v			10/29/18 21:08	1
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			10/29/18 21:08	1
Naphthalene	0.71		0.50	0.31	ppb v/v			10/29/18 21:08	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	8.1		2.5	0.99	ug/m3			10/29/18 21:08	1
Freon 22	10		1.8	0.92	ug/m3			10/29/18 21:08	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.48	ug/m3			10/29/18 21:08	1
Chloromethane	1.0	U	1.0	0.52	ug/m3			10/29/18 21:08	1
n-Butane	15		1.2	0.74	ug/m3			10/29/18 21:08	1
Vinyl chloride	0.089	U	0.089	0.10	ug/m3			10/29/18 21:08	1
1,3-Butadiene	1.6		0.44	0.14	ug/m3			10/29/18 21:08	1
Bromomethane	0.78	U	0.78	0.24	ug/m3			10/29/18 21:08	1
Chloroethane	1.3	U	1.3	0.55	ug/m3			10/29/18 21:08	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.24	ug/m3			10/29/18 21:08	1
Trichlorofluoromethane	3.8		1.1	0.35	ug/m3			10/29/18 21:08	1
Freon TF	1.5	U	1.5	0.24	ug/m3			10/29/18 21:08	1
1,1-Dichloroethene	0.14	U	0.14	0.13	ug/m3			10/29/18 21:08	1
Acetone	310	E	12	6.2	ug/m3			10/29/18 21:08	1
Isopropyl alcohol	5.7	J	12	4.4	ug/m3			10/29/18 21:08	1
Carbon disulfide	7.9		1.6	0.37	ug/m3			10/29/18 21:08	1
3-Chloropropene	1.6	U	1.6	0.85	ug/m3			10/29/18 21:08	1
Methylene Chloride	0.72	J	1.7	0.69	ug/m3			10/29/18 21:08	1
tert-Butyl alcohol	8.0	J	15	4.5	ug/m3			10/29/18 21:08	1
Methyl tert-butyl ether	0.72	U	0.72	0.22	ug/m3			10/29/18 21:08	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.29	ug/m3			10/29/18 21:08	1
n-Hexane	7.0		0.70	0.56	ug/m3			10/29/18 21:08	1
1,1-Dichloroethane	0.33	J	0.81	0.11	ug/m3			10/29/18 21:08	1
Methyl Ethyl Ketone	20		1.5	0.59	ug/m3			10/29/18 21:08	1
cis-1,2-Dichloroethene	1.6		0.14	0.15	ug/m3			10/29/18 21:08	1
1,2-Dichloroethene, Total	1.6		1.6	0.44	ug/m3			10/29/18 21:08	1
Chloroform	11		0.98	0.25	ug/m3			10/29/18 21:08	1
Tetrahydrofuran	15	U	15	7.7	ug/m3			10/29/18 21:08	1
1,1,1-Trichloroethane	0.81	J	1.1	0.37	ug/m3			10/29/18 21:08	1
Cyclohexane	2.1		0.69	0.22	ug/m3			10/29/18 21:08	1
Carbon tetrachloride	0.24		0.22	0.15	ug/m3			10/29/18 21:08	1
2,2,4-Trimethylpentane	6.3		0.93	0.41	ug/m3			10/29/18 21:08	1
Benzene	3.3		0.64	0.23	ug/m3			10/29/18 21:08	1

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: DUP-20181019

Lab Sample ID: 200-45845-4

Date Collected: 10/19/18 00:00

Matrix: Air

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.81	U	0.81	0.25	ug/m3			10/29/18 21:08	1
n-Heptane	8.4		0.82	0.57	ug/m3			10/29/18 21:08	1
Trichloroethene	17		0.19	0.16	ug/m3			10/29/18 21:08	1
Methyl methacrylate	2.0	U *	2.0	0.90	ug/m3			10/29/18 21:08	1
1,2-Dichloropropane	0.92	U *	0.92	0.55	ug/m3			10/29/18 21:08	1
1,4-Dioxane	18	U	18	4.7	ug/m3			10/29/18 21:08	1
Bromodichloromethane	1.2	J	1.3	0.63	ug/m3			10/29/18 21:08	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.44	ug/m3			10/29/18 21:08	1
methyl isobutyl ketone	1.6	J	2.0	1.5	ug/m3			10/29/18 21:08	1
Toluene	39		0.75	0.26	ug/m3			10/29/18 21:08	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.54	ug/m3			10/29/18 21:08	1
1,1,2-Trichloroethane	1.1	U	1.1	0.43	ug/m3			10/29/18 21:08	1
Tetrachloroethene	74		1.4	0.20	ug/m3			10/29/18 21:08	1
Methyl Butyl Ketone (2-Hexanone)	3.5		2.0	1.7	ug/m3			10/29/18 21:08	1
Dibromochloromethane	1.7	U	1.7	0.60	ug/m3			10/29/18 21:08	1
1,2-Dibromoethane	1.5	U	1.5	0.53	ug/m3			10/29/18 21:08	1
Chlorobenzene	0.92	U	0.92	0.18	ug/m3			10/29/18 21:08	1
Ethylbenzene	14		0.87	0.32	ug/m3			10/29/18 21:08	1
m,p-Xylene	40		2.2	0.30	ug/m3			10/29/18 21:08	1
Xylene, o-	15		0.87	0.31	ug/m3			10/29/18 21:08	1
Xylene (total)	55		3.0	0.61	ug/m3			10/29/18 21:08	1
Styrene	1.1		0.85	0.37	ug/m3			10/29/18 21:08	1
Bromoform	2.1	U	2.1	0.89	ug/m3			10/29/18 21:08	1
Cumene	0.97		0.98	0.29	ug/m3			10/29/18 21:08	1
1,1,1,2-Tetrachloroethane	1.4	U	1.4	0.52	ug/m3			10/29/18 21:08	1
n-Propylbenzene	2.6		0.98	0.34	ug/m3			10/29/18 21:08	1
4-Ethyltoluene	3.3		0.98	0.34	ug/m3			10/29/18 21:08	1
1,3,5-Trimethylbenzene	3.4		0.98	0.29	ug/m3			10/29/18 21:08	1
2-Chlorotoluene	1.0	U	1.0	0.37	ug/m3			10/29/18 21:08	1
tert-Butylbenzene	1.1	U	1.1	0.32	ug/m3			10/29/18 21:08	1
1,2,4-Trimethylbenzene	13		0.98	0.39	ug/m3			10/29/18 21:08	1
sec-Butylbenzene	0.49	J	1.1	0.36	ug/m3			10/29/18 21:08	1
4-Isopropyltoluene	0.59	J	1.1	0.41	ug/m3			10/29/18 21:08	1
1,3-Dichlorobenzene	1.2	U	1.2	0.49	ug/m3			10/29/18 21:08	1
1,4-Dichlorobenzene	1.2	U	1.2	0.39	ug/m3			10/29/18 21:08	1
Benzyl chloride	1.0	U	1.0	0.62	ug/m3			10/29/18 21:08	1
n-Butylbenzene	1.0	J	1.1	0.44	ug/m3			10/29/18 21:08	1
1,2-Dichlorobenzene	1.2	U	1.2	0.43	ug/m3			10/29/18 21:08	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.8	ug/m3			10/29/18 21:08	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			10/29/18 21:08	1
Naphthalene	3.7		2.6	1.6	ug/m3			10/29/18 21:08	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-2-SV

Lab Sample ID: 200-45845-5

Date Collected: 10/19/18 11:17

Matrix: Air

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	4.5		0.50	0.20	ppb v/v			10/31/18 02:36	1
Freon 22	0.95		0.50	0.26	ppb v/v			10/31/18 02:36	1
1,2-Dichlorotetrafluoroethane	0.12	J	0.20	0.068	ppb v/v			10/31/18 02:36	1
Chloromethane	0.50	U	0.50	0.25	ppb v/v			10/31/18 02:36	1
n-Butane	3.2		0.50	0.31	ppb v/v			10/31/18 02:36	1
Vinyl chloride	0.035	U	0.035	0.041	ppb v/v			10/31/18 02:36	1
1,3-Butadiene	0.20	U	0.20	0.065	ppb v/v			10/31/18 02:36	1
Bromomethane	0.20	U	0.20	0.062	ppb v/v			10/31/18 02:36	1
Chloroethane	0.50	U	0.50	0.21	ppb v/v			10/31/18 02:36	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.056	ppb v/v			10/31/18 02:36	1
Trichlorofluoromethane	0.83		0.20	0.062	ppb v/v			10/31/18 02:36	1
Freon TF	0.066	J	0.20	0.031	ppb v/v			10/31/18 02:36	1
1,1-Dichloroethene	0.035	U	0.035	0.034	ppb v/v			10/31/18 02:36	1
Acetone	37		5.0	2.6	ppb v/v			10/31/18 02:36	1
Isopropyl alcohol	5.0	U	5.0	1.8	ppb v/v			10/31/18 02:36	1
Carbon disulfide	0.28	J	0.50	0.12	ppb v/v			10/31/18 02:36	1
3-Chloropropene	0.50	U	0.50	0.27	ppb v/v			10/31/18 02:36	1
Methylene Chloride	0.50	U	0.50	0.20	ppb v/v			10/31/18 02:36	1
tert-Butyl alcohol	2.9	J	5.0	1.5	ppb v/v			10/31/18 02:36	1
Methyl tert-butyl ether	0.20	U	0.20	0.061	ppb v/v			10/31/18 02:36	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.074	ppb v/v			10/31/18 02:36	1
n-Hexane	4.7		0.20	0.16	ppb v/v			10/31/18 02:36	1
1,1-Dichloroethane	0.20	U	0.20	0.026	ppb v/v			10/31/18 02:36	1
Methyl Ethyl Ketone	3.3		0.50	0.20	ppb v/v			10/31/18 02:36	1
cis-1,2-Dichloroethene	0.035	U	0.035	0.037	ppb v/v			10/31/18 02:36	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.11	ppb v/v			10/31/18 02:36	1
Chloroform	0.62		0.20	0.052	ppb v/v			10/31/18 02:36	1
Tetrahydrofuran	5.0	U	5.0	2.6	ppb v/v			10/31/18 02:36	1
1,1,1-Trichloroethane	0.15	J	0.20	0.068	ppb v/v			10/31/18 02:36	1
Cyclohexane	1.2		0.20	0.063	ppb v/v			10/31/18 02:36	1
Carbon tetrachloride	0.028	J	0.035	0.024	ppb v/v			10/31/18 02:36	1
2,2,4-Trimethylpentane	2.3		0.20	0.088	ppb v/v			10/31/18 02:36	1
Benzene	2.1		0.20	0.071	ppb v/v			10/31/18 02:36	1
1,2-Dichloroethane	0.20	U	0.20	0.063	ppb v/v			10/31/18 02:36	1
n-Heptane	4.8		0.20	0.14	ppb v/v			10/31/18 02:36	1
Trichloroethene	0.092		0.035	0.030	ppb v/v			10/31/18 02:36	1
Methyl methacrylate	0.50	U	0.50	0.22	ppb v/v			10/31/18 02:36	1
1,2-Dichloropropane	0.20	U	0.20	0.12	ppb v/v			10/31/18 02:36	1
1,4-Dioxane	5.0	U	5.0	1.3	ppb v/v			10/31/18 02:36	1
Bromodichloromethane	0.20	U	0.20	0.094	ppb v/v			10/31/18 02:36	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.098	ppb v/v			10/31/18 02:36	1
methyl isobutyl ketone	0.63		0.50	0.36	ppb v/v			10/31/18 02:36	1
Toluene	17		0.20	0.069	ppb v/v			10/31/18 02:36	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.12	ppb v/v			10/31/18 02:36	1
1,1,2-Trichloroethane	0.20	U	0.20	0.078	ppb v/v			10/31/18 02:36	1
Tetrachloroethene	2.8		0.20	0.029	ppb v/v			10/31/18 02:36	1
Methyl Butyl Ketone (2-Hexanone)	1.1		0.50	0.42	ppb v/v			10/31/18 02:36	1
Dibromochloromethane	0.20	U	0.20	0.071	ppb v/v			10/31/18 02:36	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-2-SV

Lab Sample ID: 200-45845-5

Date Collected: 10/19/18 11:17

Matrix: Air

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.20	U	0.20	0.069	ppb v/v			10/31/18 02:36	1
Chlorobenzene	0.20	U	0.20	0.040	ppb v/v			10/31/18 02:36	1
Ethylbenzene	4.2		0.20	0.073	ppb v/v			10/31/18 02:36	1
m,p-Xylene	11		0.50	0.070	ppb v/v			10/31/18 02:36	1
Xylene, o-	4.0		0.20	0.071	ppb v/v			10/31/18 02:36	1
Xylene (total)	15		0.70	0.14	ppb v/v			10/31/18 02:36	1
Styrene	0.13	J	0.20	0.086	ppb v/v			10/31/18 02:36	1
Bromoform	0.20	U	0.20	0.086	ppb v/v			10/31/18 02:36	1
Cumene	0.22		0.20	0.059	ppb v/v			10/31/18 02:36	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.076	ppb v/v			10/31/18 02:36	1
n-Propylbenzene	0.61		0.20	0.069	ppb v/v			10/31/18 02:36	1
4-Ethyltoluene	0.86		0.20	0.069	ppb v/v			10/31/18 02:36	1
1,3,5-Trimethylbenzene	0.81		0.20	0.058	ppb v/v			10/31/18 02:36	1
2-Chlorotoluene	0.20	U	0.20	0.071	ppb v/v			10/31/18 02:36	1
tert-Butylbenzene	0.20	U	0.20	0.058	ppb v/v			10/31/18 02:36	1
1,2,4-Trimethylbenzene	2.5		0.20	0.080	ppb v/v			10/31/18 02:36	1
sec-Butylbenzene	0.090	J	0.20	0.066	ppb v/v			10/31/18 02:36	1
4-Isopropyltoluene	0.076	J	0.20	0.075	ppb v/v			10/31/18 02:36	1
1,3-Dichlorobenzene	0.20	U	0.20	0.082	ppb v/v			10/31/18 02:36	1
1,4-Dichlorobenzene	0.20	U	0.20	0.065	ppb v/v			10/31/18 02:36	1
Benzyl chloride	0.20	U	0.20	0.12	ppb v/v			10/31/18 02:36	1
n-Butylbenzene	0.28		0.20	0.080	ppb v/v			10/31/18 02:36	1
1,2-Dichlorobenzene	0.20	U	0.20	0.071	ppb v/v			10/31/18 02:36	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.24	ppb v/v			10/31/18 02:36	1
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			10/31/18 02:36	1
Naphthalene	0.91		0.50	0.31	ppb v/v			10/31/18 02:36	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	22		2.5	0.99	ug/m3			10/31/18 02:36	1
Freon 22	3.4		1.8	0.92	ug/m3			10/31/18 02:36	1
1,2-Dichlorotetrafluoroethane	0.83	J	1.4	0.48	ug/m3			10/31/18 02:36	1
Chloromethane	1.0	U	1.0	0.52	ug/m3			10/31/18 02:36	1
n-Butane	7.6		1.2	0.74	ug/m3			10/31/18 02:36	1
Vinyl chloride	0.089	U	0.089	0.10	ug/m3			10/31/18 02:36	1
1,3-Butadiene	0.44	U	0.44	0.14	ug/m3			10/31/18 02:36	1
Bromomethane	0.78	U	0.78	0.24	ug/m3			10/31/18 02:36	1
Chloroethane	1.3	U	1.3	0.55	ug/m3			10/31/18 02:36	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.24	ug/m3			10/31/18 02:36	1
Trichlorofluoromethane	4.7		1.1	0.35	ug/m3			10/31/18 02:36	1
Freon TF	0.50	J	1.5	0.24	ug/m3			10/31/18 02:36	1
1,1-Dichloroethene	0.14	U	0.14	0.13	ug/m3			10/31/18 02:36	1
Acetone	88		12	6.2	ug/m3			10/31/18 02:36	1
Isopropyl alcohol	12	U	12	4.4	ug/m3			10/31/18 02:36	1
Carbon disulfide	0.87	J	1.6	0.37	ug/m3			10/31/18 02:36	1
3-Chloropropene	1.6	U	1.6	0.85	ug/m3			10/31/18 02:36	1
Methylene Chloride	1.7	U	1.7	0.69	ug/m3			10/31/18 02:36	1
tert-Butyl alcohol	8.9	J	15	4.5	ug/m3			10/31/18 02:36	1
Methyl tert-butyl ether	0.72	U	0.72	0.22	ug/m3			10/31/18 02:36	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.29	ug/m3			10/31/18 02:36	1

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-2-SV

Lab Sample ID: 200-45845-5

Date Collected: 10/19/18 11:17

Matrix: Air

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Hexane	16		0.70	0.56	ug/m3			10/31/18 02:36	1
1,1-Dichloroethane	0.81	U	0.81	0.11	ug/m3			10/31/18 02:36	1
Methyl Ethyl Ketone	9.7		1.5	0.59	ug/m3			10/31/18 02:36	1
cis-1,2-Dichloroethene	0.14	U	0.14	0.15	ug/m3			10/31/18 02:36	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.44	ug/m3			10/31/18 02:36	1
Chloroform	3.0		0.98	0.25	ug/m3			10/31/18 02:36	1
Tetrahydrofuran	15	U	15	7.7	ug/m3			10/31/18 02:36	1
1,1,1-Trichloroethane	0.81	J	1.1	0.37	ug/m3			10/31/18 02:36	1
Cyclohexane	4.1		0.69	0.22	ug/m3			10/31/18 02:36	1
Carbon tetrachloride	0.17	J	0.22	0.15	ug/m3			10/31/18 02:36	1
2,2,4-Trimethylpentane	11		0.93	0.41	ug/m3			10/31/18 02:36	1
Benzene	6.7		0.64	0.23	ug/m3			10/31/18 02:36	1
1,2-Dichloroethane	0.81	U	0.81	0.25	ug/m3			10/31/18 02:36	1
n-Heptane	20		0.82	0.57	ug/m3			10/31/18 02:36	1
Trichloroethene	0.49		0.19	0.16	ug/m3			10/31/18 02:36	1
Methyl methacrylate	2.0	U	2.0	0.90	ug/m3			10/31/18 02:36	1
1,2-Dichloropropane	0.92	U	0.92	0.55	ug/m3			10/31/18 02:36	1
1,4-Dioxane	18	U	18	4.7	ug/m3			10/31/18 02:36	1
Bromodichloromethane	1.3	U	1.3	0.63	ug/m3			10/31/18 02:36	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.44	ug/m3			10/31/18 02:36	1
methyl isobutyl ketone	2.6		2.0	1.5	ug/m3			10/31/18 02:36	1
Toluene	63		0.75	0.26	ug/m3			10/31/18 02:36	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.54	ug/m3			10/31/18 02:36	1
1,1,2-Trichloroethane	1.1	U	1.1	0.43	ug/m3			10/31/18 02:36	1
Tetrachloroethene	19		1.4	0.20	ug/m3			10/31/18 02:36	1
Methyl Butyl Ketone (2-Hexanone)	4.5		2.0	1.7	ug/m3			10/31/18 02:36	1
Dibromochloromethane	1.7	U	1.7	0.60	ug/m3			10/31/18 02:36	1
1,2-Dibromoethane	1.5	U	1.5	0.53	ug/m3			10/31/18 02:36	1
Chlorobenzene	0.92	U	0.92	0.18	ug/m3			10/31/18 02:36	1
Ethylbenzene	18		0.87	0.32	ug/m3			10/31/18 02:36	1
m,p-Xylene	50		2.2	0.30	ug/m3			10/31/18 02:36	1
Xylene, o-	17		0.87	0.31	ug/m3			10/31/18 02:36	1
Xylene (total)	65		3.0	0.61	ug/m3			10/31/18 02:36	1
Styrene	0.56	J	0.85	0.37	ug/m3			10/31/18 02:36	1
Bromoform	2.1	U	2.1	0.89	ug/m3			10/31/18 02:36	1
Cumene	1.1		0.98	0.29	ug/m3			10/31/18 02:36	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.52	ug/m3			10/31/18 02:36	1
n-Propylbenzene	3.0		0.98	0.34	ug/m3			10/31/18 02:36	1
4-Ethyltoluene	4.2		0.98	0.34	ug/m3			10/31/18 02:36	1
1,3,5-Trimethylbenzene	4.0		0.98	0.29	ug/m3			10/31/18 02:36	1
2-Chlorotoluene	1.0	U	1.0	0.37	ug/m3			10/31/18 02:36	1
tert-Butylbenzene	1.1	U	1.1	0.32	ug/m3			10/31/18 02:36	1
1,2,4-Trimethylbenzene	12		0.98	0.39	ug/m3			10/31/18 02:36	1
sec-Butylbenzene	0.50	J	1.1	0.36	ug/m3			10/31/18 02:36	1
4-Isopropyltoluene	0.42	J	1.1	0.41	ug/m3			10/31/18 02:36	1
1,3-Dichlorobenzene	1.2	U	1.2	0.49	ug/m3			10/31/18 02:36	1
1,4-Dichlorobenzene	1.2	U	1.2	0.39	ug/m3			10/31/18 02:36	1
Benzyl chloride	1.0	U	1.0	0.62	ug/m3			10/31/18 02:36	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-2-SV

Date Collected: 10/19/18 11:17

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Lab Sample ID: 200-45845-5

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	1.5		1.1	0.44	ug/m3			10/31/18 02:36	1
1,2-Dichlorobenzene	1.2	U	1.2	0.43	ug/m3			10/31/18 02:36	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.8	ug/m3			10/31/18 02:36	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			10/31/18 02:36	1
Naphthalene	4.8		2.6	1.6	ug/m3			10/31/18 02:36	1

Client Sample ID: RSB-5-SV

Date Collected: 10/19/18 11:12

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Lab Sample ID: 200-45845-6

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	3.5		0.50	0.20	ppb v/v			10/30/18 07:42	1
Freon 22	2.6		0.50	0.26	ppb v/v			10/30/18 07:42	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.068	ppb v/v			10/30/18 07:42	1
Chloromethane	0.50	U	0.50	0.25	ppb v/v			10/30/18 07:42	1
n-Butane	80	E	0.50	0.31	ppb v/v			10/30/18 07:42	1
Vinyl chloride	0.035	U	0.035	0.041	ppb v/v			10/30/18 07:42	1
1,3-Butadiene	2.5		0.20	0.065	ppb v/v			10/30/18 07:42	1
Bromomethane	0.20	U	0.20	0.062	ppb v/v			10/30/18 07:42	1
Chloroethane	0.50	U	0.50	0.21	ppb v/v			10/30/18 07:42	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.056	ppb v/v			10/30/18 07:42	1
Trichlorofluoromethane	0.76		0.20	0.062	ppb v/v			10/30/18 07:42	1
Freon TF	0.074	J	0.20	0.031	ppb v/v			10/30/18 07:42	1
1,1-Dichloroethene	0.035	U	0.035	0.034	ppb v/v			10/30/18 07:42	1
Acetone	180	E	5.0	2.6	ppb v/v			10/30/18 07:42	1
Isopropyl alcohol	2.0	J	5.0	1.8	ppb v/v			10/30/18 07:42	1
Carbon disulfide	2.0		0.50	0.12	ppb v/v			10/30/18 07:42	1
3-Chloropropene	0.50	U	0.50	0.27	ppb v/v			10/30/18 07:42	1
Methylene Chloride	0.36	J	0.50	0.20	ppb v/v			10/30/18 07:42	1
tert-Butyl alcohol	2.4	J	5.0	1.5	ppb v/v			10/30/18 07:42	1
Methyl tert-butyl ether	0.20	U	0.20	0.061	ppb v/v			10/30/18 07:42	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.074	ppb v/v			10/30/18 07:42	1
n-Hexane	5.5		0.20	0.16	ppb v/v			10/30/18 07:42	1
1,1-Dichloroethane	0.11	J	0.20	0.026	ppb v/v			10/30/18 07:42	1
Methyl Ethyl Ketone	8.0		0.50	0.20	ppb v/v			10/30/18 07:42	1
cis-1,2-Dichloroethene	0.39		0.035	0.037	ppb v/v			10/30/18 07:42	1
1,2-Dichloroethene, Total	0.39	J	0.40	0.11	ppb v/v			10/30/18 07:42	1
Chloroform	1.1		0.20	0.052	ppb v/v			10/30/18 07:42	1
Tetrahydrofuran	5.0	U	5.0	2.6	ppb v/v			10/30/18 07:42	1
1,1,1-Trichloroethane	0.32		0.20	0.068	ppb v/v			10/30/18 07:42	1
Cyclohexane	1.3		0.20	0.063	ppb v/v			10/30/18 07:42	1
Carbon tetrachloride	0.053		0.035	0.024	ppb v/v			10/30/18 07:42	1
2,2,4-Trimethylpentane	2.1		0.20	0.088	ppb v/v			10/30/18 07:42	1
Benzene	2.4		0.20	0.071	ppb v/v			10/30/18 07:42	1
1,2-Dichloroethane	0.20	U	0.20	0.063	ppb v/v			10/30/18 07:42	1
n-Heptane	3.5		0.20	0.14	ppb v/v			10/30/18 07:42	1
Trichloroethene	1.8		0.035	0.030	ppb v/v			10/30/18 07:42	1

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-5-SV

Date Collected: 10/19/18 11:12

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Lab Sample ID: 200-45845-6

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl methacrylate	0.50	U *	0.50	0.22	ppb v/v			10/30/18 07:42	1
1,2-Dichloropropane	0.20	U *	0.20	0.12	ppb v/v			10/30/18 07:42	1
1,4-Dioxane	5.0	U	5.0	1.3	ppb v/v			10/30/18 07:42	1
Bromodichloromethane	0.20	U	0.20	0.094	ppb v/v			10/30/18 07:42	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.098	ppb v/v			10/30/18 07:42	1
methyl isobutyl ketone	0.63		0.50	0.36	ppb v/v			10/30/18 07:42	1
Toluene	12		0.20	0.069	ppb v/v			10/30/18 07:42	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.12	ppb v/v			10/30/18 07:42	1
1,1,2-Trichloroethane	0.20	U	0.20	0.078	ppb v/v			10/30/18 07:42	1
Tetrachloroethene	2.4		0.20	0.029	ppb v/v			10/30/18 07:42	1
Methyl Butyl Ketone (2-Hexanone)	0.52		0.50	0.42	ppb v/v			10/30/18 07:42	1
Dibromochloromethane	0.20	U	0.20	0.071	ppb v/v			10/30/18 07:42	1
1,2-Dibromoethane	0.20	U	0.20	0.069	ppb v/v			10/30/18 07:42	1
Chlorobenzene	0.20	U	0.20	0.040	ppb v/v			10/30/18 07:42	1
Ethylbenzene	1.6		0.20	0.073	ppb v/v			10/30/18 07:42	1
m,p-Xylene	4.3		0.50	0.070	ppb v/v			10/30/18 07:42	1
Xylene, o-	1.3		0.20	0.071	ppb v/v			10/30/18 07:42	1
Xylene (total)	5.6		0.70	0.14	ppb v/v			10/30/18 07:42	1
Styrene	0.20	U	0.20	0.086	ppb v/v			10/30/18 07:42	1
Bromoform	0.20	U	0.20	0.086	ppb v/v			10/30/18 07:42	1
Cumene	0.074	J	0.20	0.059	ppb v/v			10/30/18 07:42	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.076	ppb v/v			10/30/18 07:42	1
n-Propylbenzene	0.14	J	0.20	0.069	ppb v/v			10/30/18 07:42	1
4-Ethyltoluene	0.16	J	0.20	0.069	ppb v/v			10/30/18 07:42	1
1,3,5-Trimethylbenzene	0.20		0.20	0.058	ppb v/v			10/30/18 07:42	1
2-Chlorotoluene	0.20	U	0.20	0.071	ppb v/v			10/30/18 07:42	1
tert-Butylbenzene	0.20	U	0.20	0.058	ppb v/v			10/30/18 07:42	1
1,2,4-Trimethylbenzene	0.65		0.20	0.080	ppb v/v			10/30/18 07:42	1
sec-Butylbenzene	0.20	U	0.20	0.066	ppb v/v			10/30/18 07:42	1
4-Isopropyltoluene	0.20	U	0.20	0.075	ppb v/v			10/30/18 07:42	1
1,3-Dichlorobenzene	0.10	J	0.20	0.082	ppb v/v			10/30/18 07:42	1
1,4-Dichlorobenzene	0.20	U	0.20	0.065	ppb v/v			10/30/18 07:42	1
Benzyl chloride	0.20	U	0.20	0.12	ppb v/v			10/30/18 07:42	1
n-Butylbenzene	0.20	U	0.20	0.080	ppb v/v			10/30/18 07:42	1
1,2-Dichlorobenzene	0.20	U	0.20	0.071	ppb v/v			10/30/18 07:42	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.24	ppb v/v			10/30/18 07:42	1
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			10/30/18 07:42	1
Naphthalene	0.50	U	0.50	0.31	ppb v/v			10/30/18 07:42	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	17		2.5	0.99	ug/m3			10/30/18 07:42	1
Freon 22	9.0		1.8	0.92	ug/m3			10/30/18 07:42	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.48	ug/m3			10/30/18 07:42	1
Chloromethane	1.0	U	1.0	0.52	ug/m3			10/30/18 07:42	1
n-Butane	190	E	1.2	0.74	ug/m3			10/30/18 07:42	1
Vinyl chloride	0.089	U	0.089	0.10	ug/m3			10/30/18 07:42	1
1,3-Butadiene	5.5		0.44	0.14	ug/m3			10/30/18 07:42	1
Bromomethane	0.78	U	0.78	0.24	ug/m3			10/30/18 07:42	1
Chloroethane	1.3	U	1.3	0.55	ug/m3			10/30/18 07:42	1

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-5-SV

Lab Sample ID: 200-45845-6

Date Collected: 10/19/18 11:12

Matrix: Air

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.24	ug/m3			10/30/18 07:42	1
Trichlorofluoromethane	4.2		1.1	0.35	ug/m3			10/30/18 07:42	1
Freon TF	0.57	J	1.5	0.24	ug/m3			10/30/18 07:42	1
1,1-Dichloroethene	0.14	U	0.14	0.13	ug/m3			10/30/18 07:42	1
Acetone	420	E	12	6.2	ug/m3			10/30/18 07:42	1
Isopropyl alcohol	4.9	J	12	4.4	ug/m3			10/30/18 07:42	1
Carbon disulfide	6.1		1.6	0.37	ug/m3			10/30/18 07:42	1
3-Chloropropene	1.6	U	1.6	0.85	ug/m3			10/30/18 07:42	1
Methylene Chloride	1.2	J	1.7	0.69	ug/m3			10/30/18 07:42	1
tert-Butyl alcohol	7.2	J	15	4.5	ug/m3			10/30/18 07:42	1
Methyl tert-butyl ether	0.72	U	0.72	0.22	ug/m3			10/30/18 07:42	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.29	ug/m3			10/30/18 07:42	1
n-Hexane	19		0.70	0.56	ug/m3			10/30/18 07:42	1
1,1-Dichloroethane	0.44	J	0.81	0.11	ug/m3			10/30/18 07:42	1
Methyl Ethyl Ketone	24		1.5	0.59	ug/m3			10/30/18 07:42	1
cis-1,2-Dichloroethene	1.5		0.14	0.15	ug/m3			10/30/18 07:42	1
1,2-Dichloroethene, Total	1.5	J	1.6	0.44	ug/m3			10/30/18 07:42	1
Chloroform	5.6		0.98	0.25	ug/m3			10/30/18 07:42	1
Tetrahydrofuran	15	U	15	7.7	ug/m3			10/30/18 07:42	1
1,1,1-Trichloroethane	1.7		1.1	0.37	ug/m3			10/30/18 07:42	1
Cyclohexane	4.6		0.69	0.22	ug/m3			10/30/18 07:42	1
Carbon tetrachloride	0.33		0.22	0.15	ug/m3			10/30/18 07:42	1
2,2,4-Trimethylpentane	9.9		0.93	0.41	ug/m3			10/30/18 07:42	1
Benzene	7.6		0.64	0.23	ug/m3			10/30/18 07:42	1
1,2-Dichloroethane	0.81	U	0.81	0.25	ug/m3			10/30/18 07:42	1
n-Heptane	14		0.82	0.57	ug/m3			10/30/18 07:42	1
Trichloroethene	9.8		0.19	0.16	ug/m3			10/30/18 07:42	1
Methyl methacrylate	2.0	U *	2.0	0.90	ug/m3			10/30/18 07:42	1
1,2-Dichloropropane	0.92	U *	0.92	0.55	ug/m3			10/30/18 07:42	1
1,4-Dioxane	18	U	18	4.7	ug/m3			10/30/18 07:42	1
Bromodichloromethane	1.3	U	1.3	0.63	ug/m3			10/30/18 07:42	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.44	ug/m3			10/30/18 07:42	1
methyl isobutyl ketone	2.6		2.0	1.5	ug/m3			10/30/18 07:42	1
Toluene	45		0.75	0.26	ug/m3			10/30/18 07:42	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.54	ug/m3			10/30/18 07:42	1
1,1,2-Trichloroethane	1.1	U	1.1	0.43	ug/m3			10/30/18 07:42	1
Tetrachloroethene	17		1.4	0.20	ug/m3			10/30/18 07:42	1
Methyl Butyl Ketone (2-Hexanone)	2.1		2.0	1.7	ug/m3			10/30/18 07:42	1
Dibromochloromethane	1.7	U	1.7	0.60	ug/m3			10/30/18 07:42	1
1,2-Dibromoethane	1.5	U	1.5	0.53	ug/m3			10/30/18 07:42	1
Chlorobenzene	0.92	U	0.92	0.18	ug/m3			10/30/18 07:42	1
Ethylbenzene	7.1		0.87	0.32	ug/m3			10/30/18 07:42	1
m,p-Xylene	19		2.2	0.30	ug/m3			10/30/18 07:42	1
Xylene, o-	5.7		0.87	0.31	ug/m3			10/30/18 07:42	1
Xylene (total)	24		3.0	0.61	ug/m3			10/30/18 07:42	1
Styrene	0.85	U	0.85	0.37	ug/m3			10/30/18 07:42	1
Bromoform	2.1	U	2.1	0.89	ug/m3			10/30/18 07:42	1
Cumene	0.37	J	0.98	0.29	ug/m3			10/30/18 07:42	1

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-5-SV

Date Collected: 10/19/18 11:12

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Lab Sample ID: 200-45845-6

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.52	ug/m3			10/30/18 07:42	1
n-Propylbenzene	0.69	J	0.98	0.34	ug/m3			10/30/18 07:42	1
4-Ethyltoluene	0.81	J	0.98	0.34	ug/m3			10/30/18 07:42	1
1,3,5-Trimethylbenzene	1.0		0.98	0.29	ug/m3			10/30/18 07:42	1
2-Chlorotoluene	1.0	U	1.0	0.37	ug/m3			10/30/18 07:42	1
tert-Butylbenzene	1.1	U	1.1	0.32	ug/m3			10/30/18 07:42	1
1,2,4-Trimethylbenzene	3.2		0.98	0.39	ug/m3			10/30/18 07:42	1
sec-Butylbenzene	1.1	U	1.1	0.36	ug/m3			10/30/18 07:42	1
4-Isopropyltoluene	1.1	U	1.1	0.41	ug/m3			10/30/18 07:42	1
1,3-Dichlorobenzene	0.61	J	1.2	0.49	ug/m3			10/30/18 07:42	1
1,4-Dichlorobenzene	1.2	U	1.2	0.39	ug/m3			10/30/18 07:42	1
Benzyl chloride	1.0	U	1.0	0.62	ug/m3			10/30/18 07:42	1
n-Butylbenzene	1.1	U	1.1	0.44	ug/m3			10/30/18 07:42	1
1,2-Dichlorobenzene	1.2	U	1.2	0.43	ug/m3			10/30/18 07:42	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.8	ug/m3			10/30/18 07:42	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			10/30/18 07:42	1
Naphthalene	2.6	U	2.6	1.6	ug/m3			10/30/18 07:42	1

Client Sample ID: RSB-1-SV

Date Collected: 10/19/18 11:26

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Lab Sample ID: 200-45845-7

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.0		0.50	0.20	ppb v/v			10/31/18 00:56	1
Freon 22	1.9		0.50	0.26	ppb v/v			10/31/18 00:56	1
1,2-Dichlorotetrafluoroethane	0.39		0.20	0.068	ppb v/v			10/31/18 00:56	1
Chloromethane	0.42	J	0.50	0.25	ppb v/v			10/31/18 00:56	1
n-Butane	63	E	0.50	0.31	ppb v/v			10/31/18 00:56	1
Vinyl chloride	0.035	U	0.035	0.041	ppb v/v			10/31/18 00:56	1
1,3-Butadiene	4.4		0.20	0.065	ppb v/v			10/31/18 00:56	1
Bromomethane	0.20	U	0.20	0.062	ppb v/v			10/31/18 00:56	1
Chloroethane	0.50	U	0.50	0.21	ppb v/v			10/31/18 00:56	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.056	ppb v/v			10/31/18 00:56	1
Trichlorofluoromethane	0.61		0.20	0.062	ppb v/v			10/31/18 00:56	1
Freon TF	0.087	J	0.20	0.031	ppb v/v			10/31/18 00:56	1
1,1-Dichloroethene	0.035	U	0.035	0.034	ppb v/v			10/31/18 00:56	1
Acetone	86	E	5.0	2.6	ppb v/v			10/31/18 00:56	1
Isopropyl alcohol	5.0	U	5.0	1.8	ppb v/v			10/31/18 00:56	1
Carbon disulfide	4.8		0.50	0.12	ppb v/v			10/31/18 00:56	1
3-Chloropropene	0.50	U	0.50	0.27	ppb v/v			10/31/18 00:56	1
Methylene Chloride	1.7		0.50	0.20	ppb v/v			10/31/18 00:56	1
tert-Butyl alcohol	15		5.0	1.5	ppb v/v			10/31/18 00:56	1
Methyl tert-butyl ether	0.20	U	0.20	0.061	ppb v/v			10/31/18 00:56	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.074	ppb v/v			10/31/18 00:56	1
n-Hexane	13		0.20	0.16	ppb v/v			10/31/18 00:56	1
1,1-Dichloroethane	0.20	U	0.20	0.026	ppb v/v			10/31/18 00:56	1
Methyl Ethyl Ketone	4.8		0.50	0.20	ppb v/v			10/31/18 00:56	1

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-1-SV

Lab Sample ID: 200-45845-7

Date Collected: 10/19/18 11:26

Matrix: Air

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.42		0.035	0.037	ppb v/v			10/31/18 00:56	1
1,2-Dichloroethene, Total	0.42		0.40	0.11	ppb v/v			10/31/18 00:56	1
Chloroform	130	E	0.20	0.052	ppb v/v			10/31/18 00:56	1
Tetrahydrofuran	5.0	U	5.0	2.6	ppb v/v			10/31/18 00:56	1
1,1,1-Trichloroethane	0.32		0.20	0.068	ppb v/v			10/31/18 00:56	1
Cyclohexane	5.6		0.20	0.063	ppb v/v			10/31/18 00:56	1
Carbon tetrachloride	0.20		0.035	0.024	ppb v/v			10/31/18 00:56	1
2,2,4-Trimethylpentane	2.1		0.20	0.088	ppb v/v			10/31/18 00:56	1
Benzene	4.4		0.20	0.071	ppb v/v			10/31/18 00:56	1
1,2-Dichloroethane	0.20	U	0.20	0.063	ppb v/v			10/31/18 00:56	1
n-Heptane	13		0.20	0.14	ppb v/v			10/31/18 00:56	1
Trichloroethene	2.5		0.035	0.030	ppb v/v			10/31/18 00:56	1
Methyl methacrylate	0.50	U	0.50	0.22	ppb v/v			10/31/18 00:56	1
1,2-Dichloropropane	0.20	U	0.20	0.12	ppb v/v			10/31/18 00:56	1
1,4-Dioxane	5.0	U	5.0	1.3	ppb v/v			10/31/18 00:56	1
Bromodichloromethane	1.7		0.20	0.094	ppb v/v			10/31/18 00:56	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.098	ppb v/v			10/31/18 00:56	1
methyl isobutyl ketone	0.50	U	0.50	0.36	ppb v/v			10/31/18 00:56	1
Toluene	12		0.20	0.069	ppb v/v			10/31/18 00:56	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.12	ppb v/v			10/31/18 00:56	1
1,1,2-Trichloroethane	0.20	U	0.20	0.078	ppb v/v			10/31/18 00:56	1
Tetrachloroethene	1.1		0.20	0.029	ppb v/v			10/31/18 00:56	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.42	ppb v/v			10/31/18 00:56	1
Dibromochloromethane	0.20	U	0.20	0.071	ppb v/v			10/31/18 00:56	1
1,2-Dibromoethane	0.20	U	0.20	0.069	ppb v/v			10/31/18 00:56	1
Chlorobenzene	0.20	U	0.20	0.040	ppb v/v			10/31/18 00:56	1
Ethylbenzene	1.7		0.20	0.073	ppb v/v			10/31/18 00:56	1
m,p-Xylene	17		0.50	0.070	ppb v/v			10/31/18 00:56	1
Xylene, o-	2.1		0.20	0.071	ppb v/v			10/31/18 00:56	1
Xylene (total)	19		0.70	0.14	ppb v/v			10/31/18 00:56	1
Styrene	0.20	U	0.20	0.086	ppb v/v			10/31/18 00:56	1
Bromoform	0.20	U	0.20	0.086	ppb v/v			10/31/18 00:56	1
Cumene	0.091	J	0.20	0.059	ppb v/v			10/31/18 00:56	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.076	ppb v/v			10/31/18 00:56	1
n-Propylbenzene	0.096	J	0.20	0.069	ppb v/v			10/31/18 00:56	1
4-Ethyltoluene	0.14	J	0.20	0.069	ppb v/v			10/31/18 00:56	1
1,3,5-Trimethylbenzene	0.27		0.20	0.058	ppb v/v			10/31/18 00:56	1
2-Chlorotoluene	0.20	U	0.20	0.071	ppb v/v			10/31/18 00:56	1
tert-Butylbenzene	0.20	U	0.20	0.058	ppb v/v			10/31/18 00:56	1
1,2,4-Trimethylbenzene	0.43		0.20	0.080	ppb v/v			10/31/18 00:56	1
sec-Butylbenzene	0.20	U	0.20	0.066	ppb v/v			10/31/18 00:56	1
4-Isopropyltoluene	0.20	U	0.20	0.075	ppb v/v			10/31/18 00:56	1
1,3-Dichlorobenzene	0.13	J	0.20	0.082	ppb v/v			10/31/18 00:56	1
1,4-Dichlorobenzene	0.069	J	0.20	0.065	ppb v/v			10/31/18 00:56	1
Benzyl chloride	0.20	U	0.20	0.12	ppb v/v			10/31/18 00:56	1
n-Butylbenzene	0.20	U	0.20	0.080	ppb v/v			10/31/18 00:56	1
1,2-Dichlorobenzene	0.20	U	0.20	0.071	ppb v/v			10/31/18 00:56	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.24	ppb v/v			10/31/18 00:56	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-1-SV

Date Collected: 10/19/18 11:26

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Lab Sample ID: 200-45845-7

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			10/31/18 00:56	1
Naphthalene	0.50	U	0.50	0.31	ppb v/v			10/31/18 00:56	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	10		2.5	0.99	ug/m3			10/31/18 00:56	1
Freon 22	6.5		1.8	0.92	ug/m3			10/31/18 00:56	1
1,2-Dichlorotetrafluoroethane	2.7		1.4	0.48	ug/m3			10/31/18 00:56	1
Chloromethane	0.86	J	1.0	0.52	ug/m3			10/31/18 00:56	1
n-Butane	150	E	1.2	0.74	ug/m3			10/31/18 00:56	1
Vinyl chloride	0.089	U	0.089	0.10	ug/m3			10/31/18 00:56	1
1,3-Butadiene	9.8		0.44	0.14	ug/m3			10/31/18 00:56	1
Bromomethane	0.78	U	0.78	0.24	ug/m3			10/31/18 00:56	1
Chloroethane	1.3	U	1.3	0.55	ug/m3			10/31/18 00:56	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.24	ug/m3			10/31/18 00:56	1
Trichlorofluoromethane	3.4		1.1	0.35	ug/m3			10/31/18 00:56	1
Freon TF	0.67	J	1.5	0.24	ug/m3			10/31/18 00:56	1
1,1-Dichloroethene	0.14	U	0.14	0.13	ug/m3			10/31/18 00:56	1
Acetone	200	E	12	6.2	ug/m3			10/31/18 00:56	1
Isopropyl alcohol	12	U	12	4.4	ug/m3			10/31/18 00:56	1
Carbon disulfide	15		1.6	0.37	ug/m3			10/31/18 00:56	1
3-Chloropropene	1.6	U	1.6	0.85	ug/m3			10/31/18 00:56	1
Methylene Chloride	6.0		1.7	0.69	ug/m3			10/31/18 00:56	1
tert-Butyl alcohol	46		15	4.5	ug/m3			10/31/18 00:56	1
Methyl tert-butyl ether	0.72	U	0.72	0.22	ug/m3			10/31/18 00:56	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.29	ug/m3			10/31/18 00:56	1
n-Hexane	45		0.70	0.56	ug/m3			10/31/18 00:56	1
1,1-Dichloroethane	0.81	U	0.81	0.11	ug/m3			10/31/18 00:56	1
Methyl Ethyl Ketone	14		1.5	0.59	ug/m3			10/31/18 00:56	1
cis-1,2-Dichloroethene	1.7		0.14	0.15	ug/m3			10/31/18 00:56	1
1,2-Dichloroethene, Total	1.7		1.6	0.44	ug/m3			10/31/18 00:56	1
Chloroform	650	E	0.98	0.25	ug/m3			10/31/18 00:56	1
Tetrahydrofuran	15	U	15	7.7	ug/m3			10/31/18 00:56	1
1,1,1-Trichloroethane	1.7		1.1	0.37	ug/m3			10/31/18 00:56	1
Cyclohexane	19		0.69	0.22	ug/m3			10/31/18 00:56	1
Carbon tetrachloride	1.2		0.22	0.15	ug/m3			10/31/18 00:56	1
2,2,4-Trimethylpentane	9.9		0.93	0.41	ug/m3			10/31/18 00:56	1
Benzene	14		0.64	0.23	ug/m3			10/31/18 00:56	1
1,2-Dichloroethane	0.81	U	0.81	0.25	ug/m3			10/31/18 00:56	1
n-Heptane	54		0.82	0.57	ug/m3			10/31/18 00:56	1
Trichloroethene	13		0.19	0.16	ug/m3			10/31/18 00:56	1
Methyl methacrylate	2.0	U	2.0	0.90	ug/m3			10/31/18 00:56	1
1,2-Dichloropropane	0.92	U	0.92	0.55	ug/m3			10/31/18 00:56	1
1,4-Dioxane	18	U	18	4.7	ug/m3			10/31/18 00:56	1
Bromodichloromethane	11		1.3	0.63	ug/m3			10/31/18 00:56	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.44	ug/m3			10/31/18 00:56	1
methyl isobutyl ketone	2.0	U	2.0	1.5	ug/m3			10/31/18 00:56	1
Toluene	46		0.75	0.26	ug/m3			10/31/18 00:56	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.54	ug/m3			10/31/18 00:56	1
1,1,2-Trichloroethane	1.1	U	1.1	0.43	ug/m3			10/31/18 00:56	1

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: RSB-1-SV

Lab Sample ID: 200-45845-7

Date Collected: 10/19/18 11:26

Matrix: Air

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	7.2		1.4	0.20	ug/m3			10/31/18 00:56	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	1.7	ug/m3			10/31/18 00:56	1
Dibromochloromethane	1.7	U	1.7	0.60	ug/m3			10/31/18 00:56	1
1,2-Dibromoethane	1.5	U	1.5	0.53	ug/m3			10/31/18 00:56	1
Chlorobenzene	0.92	U	0.92	0.18	ug/m3			10/31/18 00:56	1
Ethylbenzene	7.3		0.87	0.32	ug/m3			10/31/18 00:56	1
m,p-Xylene	72		2.2	0.30	ug/m3			10/31/18 00:56	1
Xylene, o-	9.3		0.87	0.31	ug/m3			10/31/18 00:56	1
Xylene (total)	83		3.0	0.61	ug/m3			10/31/18 00:56	1
Styrene	0.85	U	0.85	0.37	ug/m3			10/31/18 00:56	1
Bromoform	2.1	U	2.1	0.89	ug/m3			10/31/18 00:56	1
Cumene	0.45	J	0.98	0.29	ug/m3			10/31/18 00:56	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.52	ug/m3			10/31/18 00:56	1
n-Propylbenzene	0.47	J	0.98	0.34	ug/m3			10/31/18 00:56	1
4-Ethyltoluene	0.68	J	0.98	0.34	ug/m3			10/31/18 00:56	1
1,3,5-Trimethylbenzene	1.3		0.98	0.29	ug/m3			10/31/18 00:56	1
2-Chlorotoluene	1.0	U	1.0	0.37	ug/m3			10/31/18 00:56	1
tert-Butylbenzene	1.1	U	1.1	0.32	ug/m3			10/31/18 00:56	1
1,2,4-Trimethylbenzene	2.1		0.98	0.39	ug/m3			10/31/18 00:56	1
sec-Butylbenzene	1.1	U	1.1	0.36	ug/m3			10/31/18 00:56	1
4-Isopropyltoluene	1.1	U	1.1	0.41	ug/m3			10/31/18 00:56	1
1,3-Dichlorobenzene	0.78	J	1.2	0.49	ug/m3			10/31/18 00:56	1
1,4-Dichlorobenzene	0.41	J	1.2	0.39	ug/m3			10/31/18 00:56	1
Benzyl chloride	1.0	U	1.0	0.62	ug/m3			10/31/18 00:56	1
n-Butylbenzene	1.1	U	1.1	0.44	ug/m3			10/31/18 00:56	1
1,2-Dichlorobenzene	1.2	U	1.2	0.43	ug/m3			10/31/18 00:56	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.8	ug/m3			10/31/18 00:56	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			10/31/18 00:56	1
Naphthalene	2.6	U	2.6	1.6	ug/m3			10/31/18 00:56	1

Client Sample ID: AMB-1

Lab Sample ID: 200-45845-8

Date Collected: 10/19/18 11:45

Matrix: Air

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.26	J	0.50	0.20	ppb v/v			10/25/18 10:10	1
Freon 22	0.37	J	0.50	0.26	ppb v/v			10/25/18 10:10	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.068	ppb v/v			10/25/18 10:10	1
Chloromethane	0.41	J	0.50	0.25	ppb v/v			10/25/18 10:10	1
n-Butane	1.5		0.50	0.31	ppb v/v			10/25/18 10:10	1
Vinyl chloride	0.035	U	0.035	0.041	ppb v/v			10/25/18 10:10	1
1,3-Butadiene	0.20	U	0.20	0.065	ppb v/v			10/25/18 10:10	1
Bromomethane	0.20	U	0.20	0.062	ppb v/v			10/25/18 10:10	1
Chloroethane	0.50	U	0.50	0.21	ppb v/v			10/25/18 10:10	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.056	ppb v/v			10/25/18 10:10	1
Trichlorofluoromethane	0.20		0.20	0.062	ppb v/v			10/25/18 10:10	1
Freon TF	0.055	J	0.20	0.031	ppb v/v			10/25/18 10:10	1

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: AMB-1

Date Collected: 10/19/18 11:45

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Lab Sample ID: 200-45845-8

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.035	U	0.035	0.034	ppb v/v			10/25/18 10:10	1
Acetone	3.3	J	5.0	2.6	ppb v/v			10/25/18 10:10	1
Isopropyl alcohol	5.0	U	5.0	1.8	ppb v/v			10/25/18 10:10	1
Carbon disulfide	0.50	U	0.50	0.12	ppb v/v			10/25/18 10:10	1
3-Chloropropene	0.50	U	0.50	0.27	ppb v/v			10/25/18 10:10	1
Methylene Chloride	0.29	J	0.50	0.20	ppb v/v			10/25/18 10:10	1
tert-Butyl alcohol	5.0	U	5.0	1.5	ppb v/v			10/25/18 10:10	1
Methyl tert-butyl ether	0.20	U	0.20	0.061	ppb v/v			10/25/18 10:10	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.074	ppb v/v			10/25/18 10:10	1
n-Hexane	0.17	J	0.20	0.16	ppb v/v			10/25/18 10:10	1
1,1-Dichloroethane	0.20	U	0.20	0.026	ppb v/v			10/25/18 10:10	1
Methyl Ethyl Ketone	0.27	J	0.50	0.20	ppb v/v			10/25/18 10:10	1
cis-1,2-Dichloroethene	0.035	U	0.035	0.037	ppb v/v			10/25/18 10:10	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.11	ppb v/v			10/25/18 10:10	1
Chloroform	0.20	U	0.20	0.052	ppb v/v			10/25/18 10:10	1
Tetrahydrofuran	5.0	U	5.0	2.6	ppb v/v			10/25/18 10:10	1
1,1,1-Trichloroethane	0.20	U	0.20	0.068	ppb v/v			10/25/18 10:10	1
Cyclohexane	0.20	U	0.20	0.063	ppb v/v			10/25/18 10:10	1
Carbon tetrachloride	0.053		0.035	0.024	ppb v/v			10/25/18 10:10	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.088	ppb v/v			10/25/18 10:10	1
Benzene	0.19	J	0.20	0.071	ppb v/v			10/25/18 10:10	1
1,2-Dichloroethane	0.20	U	0.20	0.063	ppb v/v			10/25/18 10:10	1
n-Heptane	0.20	U	0.20	0.14	ppb v/v			10/25/18 10:10	1
Trichloroethene	0.035	U	0.035	0.030	ppb v/v			10/25/18 10:10	1
Methyl methacrylate	0.50	U	0.50	0.22	ppb v/v			10/25/18 10:10	1
1,2-Dichloropropane	0.20	U	0.20	0.12	ppb v/v			10/25/18 10:10	1
1,4-Dioxane	5.0	U	5.0	1.3	ppb v/v			10/25/18 10:10	1
Bromodichloromethane	0.20	U	0.20	0.094	ppb v/v			10/25/18 10:10	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.098	ppb v/v			10/25/18 10:10	1
methyl isobutyl ketone	0.50	U	0.50	0.36	ppb v/v			10/25/18 10:10	1
Toluene	0.36		0.20	0.069	ppb v/v			10/25/18 10:10	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.12	ppb v/v			10/25/18 10:10	1
1,1,2-Trichloroethane	0.20	U	0.20	0.078	ppb v/v			10/25/18 10:10	1
Tetrachloroethene	0.20	U	0.20	0.029	ppb v/v			10/25/18 10:10	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.42	ppb v/v			10/25/18 10:10	1
Dibromochloromethane	0.20	U	0.20	0.071	ppb v/v			10/25/18 10:10	1
1,2-Dibromoethane	0.20	U	0.20	0.069	ppb v/v			10/25/18 10:10	1
Chlorobenzene	0.20	U	0.20	0.040	ppb v/v			10/25/18 10:10	1
Ethylbenzene	0.20	U	0.20	0.073	ppb v/v			10/25/18 10:10	1
m,p-Xylene	0.081	J	0.50	0.070	ppb v/v			10/25/18 10:10	1
Xylene, o-	0.20	U	0.20	0.071	ppb v/v			10/25/18 10:10	1
Xylene (total)	0.70	U	0.70	0.14	ppb v/v			10/25/18 10:10	1
Styrene	0.20	U	0.20	0.086	ppb v/v			10/25/18 10:10	1
Bromoform	0.20	U	0.20	0.086	ppb v/v			10/25/18 10:10	1
Cumene	0.20	U	0.20	0.059	ppb v/v			10/25/18 10:10	1
1,1,1,2-Tetrachloroethane	0.20	U	0.20	0.076	ppb v/v			10/25/18 10:10	1
n-Propylbenzene	0.20	U	0.20	0.069	ppb v/v			10/25/18 10:10	1
4-Ethyltoluene	0.20	U	0.20	0.069	ppb v/v			10/25/18 10:10	1

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: AMB-1

Date Collected: 10/19/18 11:45

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Lab Sample ID: 200-45845-8

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	0.20	U	0.20	0.058	ppb v/v			10/25/18 10:10	1
2-Chlorotoluene	0.20	U	0.20	0.071	ppb v/v			10/25/18 10:10	1
tert-Butylbenzene	0.20	U	0.20	0.058	ppb v/v			10/25/18 10:10	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.080	ppb v/v			10/25/18 10:10	1
sec-Butylbenzene	0.20	U	0.20	0.066	ppb v/v			10/25/18 10:10	1
4-Isopropyltoluene	0.20	U	0.20	0.075	ppb v/v			10/25/18 10:10	1
1,3-Dichlorobenzene	0.20	U	0.20	0.082	ppb v/v			10/25/18 10:10	1
1,4-Dichlorobenzene	0.20	U	0.20	0.065	ppb v/v			10/25/18 10:10	1
Benzyl chloride	0.20	U	0.20	0.12	ppb v/v			10/25/18 10:10	1
n-Butylbenzene	0.20	U	0.20	0.080	ppb v/v			10/25/18 10:10	1
1,2-Dichlorobenzene	0.20	U	0.20	0.071	ppb v/v			10/25/18 10:10	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.24	ppb v/v			10/25/18 10:10	1
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			10/25/18 10:10	1
Naphthalene	0.50	U	0.50	0.31	ppb v/v			10/25/18 10:10	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.3	J	2.5	0.99	ug/m3			10/25/18 10:10	1
Freon 22	1.3	J	1.8	0.92	ug/m3			10/25/18 10:10	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.48	ug/m3			10/25/18 10:10	1
Chloromethane	0.84	J	1.0	0.52	ug/m3			10/25/18 10:10	1
n-Butane	3.6		1.2	0.74	ug/m3			10/25/18 10:10	1
Vinyl chloride	0.089	U	0.089	0.10	ug/m3			10/25/18 10:10	1
1,3-Butadiene	0.44	U	0.44	0.14	ug/m3			10/25/18 10:10	1
Bromomethane	0.78	U	0.78	0.24	ug/m3			10/25/18 10:10	1
Chloroethane	1.3	U	1.3	0.55	ug/m3			10/25/18 10:10	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.24	ug/m3			10/25/18 10:10	1
Trichlorofluoromethane	1.1		1.1	0.35	ug/m3			10/25/18 10:10	1
Freon TF	0.42	J	1.5	0.24	ug/m3			10/25/18 10:10	1
1,1-Dichloroethene	0.14	U	0.14	0.13	ug/m3			10/25/18 10:10	1
Acetone	8.0	J	12	6.2	ug/m3			10/25/18 10:10	1
Isopropyl alcohol	12	U	12	4.4	ug/m3			10/25/18 10:10	1
Carbon disulfide	1.6	U	1.6	0.37	ug/m3			10/25/18 10:10	1
3-Chloropropene	1.6	U	1.6	0.85	ug/m3			10/25/18 10:10	1
Methylene Chloride	1.0	J	1.7	0.69	ug/m3			10/25/18 10:10	1
tert-Butyl alcohol	15	U	15	4.5	ug/m3			10/25/18 10:10	1
Methyl tert-butyl ether	0.72	U	0.72	0.22	ug/m3			10/25/18 10:10	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.29	ug/m3			10/25/18 10:10	1
n-Hexane	0.61	J	0.70	0.56	ug/m3			10/25/18 10:10	1
1,1-Dichloroethane	0.81	U	0.81	0.11	ug/m3			10/25/18 10:10	1
Methyl Ethyl Ketone	0.79	J	1.5	0.59	ug/m3			10/25/18 10:10	1
cis-1,2-Dichloroethene	0.14	U	0.14	0.15	ug/m3			10/25/18 10:10	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.44	ug/m3			10/25/18 10:10	1
Chloroform	0.98	U	0.98	0.25	ug/m3			10/25/18 10:10	1
Tetrahydrofuran	15	U	15	7.7	ug/m3			10/25/18 10:10	1
1,1,1-Trichloroethane	1.1	U	1.1	0.37	ug/m3			10/25/18 10:10	1
Cyclohexane	0.69	U	0.69	0.22	ug/m3			10/25/18 10:10	1
Carbon tetrachloride	0.33		0.22	0.15	ug/m3			10/25/18 10:10	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.41	ug/m3			10/25/18 10:10	1
Benzene	0.62	J	0.64	0.23	ug/m3			10/25/18 10:10	1

TestAmerica Burlington

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Columbia International

TestAmerica Job ID: 200-45845-1
SDG: 200-45845-1

Client Sample ID: AMB-1

Date Collected: 10/19/18 11:45

Date Received: 10/23/18 09:30

Sample Container: Summa Canister 6L

Lab Sample ID: 200-45845-8

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.81	U	0.81	0.25	ug/m3			10/25/18 10:10	1
n-Heptane	0.82	U	0.82	0.57	ug/m3			10/25/18 10:10	1
Trichloroethene	0.19	U	0.19	0.16	ug/m3			10/25/18 10:10	1
Methyl methacrylate	2.0	U	2.0	0.90	ug/m3			10/25/18 10:10	1
1,2-Dichloropropane	0.92	U	0.92	0.55	ug/m3			10/25/18 10:10	1
1,4-Dioxane	18	U	18	4.7	ug/m3			10/25/18 10:10	1
Bromodichloromethane	1.3	U	1.3	0.63	ug/m3			10/25/18 10:10	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.44	ug/m3			10/25/18 10:10	1
methyl isobutyl ketone	2.0	U	2.0	1.5	ug/m3			10/25/18 10:10	1
Toluene	1.3		0.75	0.26	ug/m3			10/25/18 10:10	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.54	ug/m3			10/25/18 10:10	1
1,1,2-Trichloroethane	1.1	U	1.1	0.43	ug/m3			10/25/18 10:10	1
Tetrachloroethene	1.4	U	1.4	0.20	ug/m3			10/25/18 10:10	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	1.7	ug/m3			10/25/18 10:10	1
Dibromochloromethane	1.7	U	1.7	0.60	ug/m3			10/25/18 10:10	1
1,2-Dibromoethane	1.5	U	1.5	0.53	ug/m3			10/25/18 10:10	1
Chlorobenzene	0.92	U	0.92	0.18	ug/m3			10/25/18 10:10	1
Ethylbenzene	0.87	U	0.87	0.32	ug/m3			10/25/18 10:10	1
m,p-Xylene	0.35	J	2.2	0.30	ug/m3			10/25/18 10:10	1
Xylene, o-	0.87	U	0.87	0.31	ug/m3			10/25/18 10:10	1
Xylene (total)	3.0	U	3.0	0.61	ug/m3			10/25/18 10:10	1
Styrene	0.85	U	0.85	0.37	ug/m3			10/25/18 10:10	1
Bromoform	2.1	U	2.1	0.89	ug/m3			10/25/18 10:10	1
Cumene	0.98	U	0.98	0.29	ug/m3			10/25/18 10:10	1
1,1,1,2-Tetrachloroethane	1.4	U	1.4	0.52	ug/m3			10/25/18 10:10	1
n-Propylbenzene	0.98	U	0.98	0.34	ug/m3			10/25/18 10:10	1
4-Ethyltoluene	0.98	U	0.98	0.34	ug/m3			10/25/18 10:10	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.29	ug/m3			10/25/18 10:10	1
2-Chlorotoluene	1.0	U	1.0	0.37	ug/m3			10/25/18 10:10	1
tert-Butylbenzene	1.1	U	1.1	0.32	ug/m3			10/25/18 10:10	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.39	ug/m3			10/25/18 10:10	1
sec-Butylbenzene	1.1	U	1.1	0.36	ug/m3			10/25/18 10:10	1
4-Isopropyltoluene	1.1	U	1.1	0.41	ug/m3			10/25/18 10:10	1
1,3-Dichlorobenzene	1.2	U	1.2	0.49	ug/m3			10/25/18 10:10	1
1,4-Dichlorobenzene	1.2	U	1.2	0.39	ug/m3			10/25/18 10:10	1
Benzyl chloride	1.0	U	1.0	0.62	ug/m3			10/25/18 10:10	1
n-Butylbenzene	1.1	U	1.1	0.44	ug/m3			10/25/18 10:10	1
1,2-Dichlorobenzene	1.2	U	1.2	0.43	ug/m3			10/25/18 10:10	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.8	ug/m3			10/25/18 10:10	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			10/25/18 10:10	1
Naphthalene	2.6	U	2.6	1.6	ug/m3			10/25/18 10:10	1

ANALYTICAL REPORT

Job Number: 460-161048-1

Job Description: Taconic Inwood

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, NY 11749
Attention: Ms. Jessica Taylor

Melissa Haas

Approved for release.
Melissa Haas
Project Manager I
11/16/2018 11:14 AM

Melissa Haas, Project Manager I
777 New Durham Road, Edison, NJ, 08817
(203)944-1310
melissa.haas@testamericainc.com
11/16/2018
Revision: 1

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TestAmerica Laboratories, Inc.

TestAmerica Edison 777 New Durham Road, Edison, NJ 08817
Tel (732) 549-3900 Fax (732) 549-3679 www.testamericainc.com



Job Number: 460-161048-1

Job Description: Taconic Inwood

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

A handwritten signature in dark ink that reads "Melissa Haas". The signature is written in a cursive style with a horizontal line underneath.

Approved for release.
Melissa Haas
Project Manager I
11/16/2018 11:14 AM

Melissa Haas

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CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: Taconic Inwood

Report Number: 460-161048-1

Revised Report #1

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

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

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

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

REVISED REPORT #1

The following report required a revision: 460-161048-1. Details are as follows: The client requested the addition of NY Part 375 compounds for VOCs, SVOCs, and Pesticides.

RECEIPT

The samples were received on 7/23/2018 7:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

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

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MR-11_0.25-0.75 (460-161048-1) and MR-11_5-6.5 (460-161048-2) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260C. The samples were prepared on 07/24/2018 and analyzed on 07/27/2018.

Methylene Chloride was detected in method blank MB 460-540043/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Methylene Chloride was detected in method blank MB 460-540121/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Styrene was detected in method blank LB3 460-539166/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

PESTICIDES

Samples MR-11_0.25-0.75 (460-161048-1) and MR-11_5-6.5 (460-161048-2) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 07/24/2018 and analyzed on 07/25/2018.

No difficulties were encountered during the Pesticides analysis.

All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS

Samples MR-11_0.25-0.75 (460-161048-1) and MR-11_5-6.5 (460-161048-2) were analyzed for polychlorinated biphenyls in accordance with EPA SW-846 Method 8082A. The samples were prepared on 07/24/2018 and analyzed on 07/25/2018.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

CHLORINATED HERBICIDES

Samples MR-11_0.25-0.75 (460-161048-1) and MR-11_5-6.5 (460-161048-2) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 07/26/2018 and analyzed on 07/29/2018.

The 2,4-Dichlorophenylacetic acid surrogate recovery for the following Matrix Spike/Matrix Spike Duplicate (MS/MSD) were outside acceptance limits (high biased) on the confirmation column due to matrix interference: (460-160978-E-4-O MS) and (460-160978-F-4-K MSD). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

Silvex (2,4,5-TP) failed the recovery criteria high for the MSD of sample 460-160978-4 in batch 460-540442. Silvex (2,4,5-TP) exceeded the RPD limit.

Refer to the QC report for details.

No other difficulties were encountered during the herbicides analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MR-11_0.25-0.75 (460-161048-1) and MR-11_5-6.5 (460-161048-2) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 07/24/2018 and analyzed on 07/26/2018.

The continuing calibration verification (CCV) associated with batch 460-539857 recovered above the upper control limit for Hexachlorocyclopentadiene, 2-Nitroaniline and Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-539178 recovered above the upper control limit for Phenol, Di-n-octyl phthalate, Bis(2-chloroethyl)ether, N-Nitrosodi-n-propylamine, Bis(2-chloroethoxy)methane, Bis(2-ethylhexyl) phthalate, Butyl benzyl phthalate and Isophorone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-539178 recovered above the upper control limit for Benzaldehyde. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The laboratory control sample (LCS) for preparation batch 460-539399 and analytical batch 460-539178 recovered outside control limits for the following analytes: 2-Methylphenol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether and Phenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Surrogates recoveries for the following laboratory control sample (LCS) associated with batch 460-539399 were outside the upper control limits. Sample has been reported.

The surrogate recovery for the blank associated with preparation batch 460-539399 and analytical batch 460-539178 was outside the upper control limits.

The continuing calibration verification (CCV) associated with batch 460-539688 recovered above the upper control limit for N-Nitrosodi-n-propylamine, Phenol, Di-n-octyl phthalate, Bis(2-chloroethyl)ether, Bis(2-chloroethoxy)methane, Isophorone, Butyl benzyl phthalate, 2-Methylphenol and 4-Methylphenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-539688 recovered above the upper control limit for Benzaldehyde. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MR-11_0.25-0.75 (460-161048-1) and MR-11_5-6.5 (460-161048-2). These results have been reported and qualified.

Diethyl phthalate was detected in method blank MB 460-539399/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

2-Fluorophenol (Surr), Nitrobenzene-d5 (Surr) and Phenol-d5 (Surr) failed the surrogate recovery criteria high for 460-161022-E-15-B MS and 460-161022-E-15-C MSD.

Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether and Phenol failed the recovery criteria high for the MSD of sample 460-161022-15 in batch 460-539178.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

METALS

Samples MR-11_0.25-0.75 (460-161048-1) and MR-11_5-6.5 (460-161048-2) were analyzed for Metals in accordance with EPA SW-846 Method 6020A. The samples were prepared and analyzed on 07/25/2018.

Antimony failed the recovery criteria low for the MS of sample 460-161022-12 in batch 460-539580. Aluminum and Iron failed the recovery criteria high.

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

Refer to the QC report for details.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples MR-11_0.25-0.75 (460-161048-1) and MR-11_5-6.5 (460-161048-2) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 07/25/2018.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

TOTAL CYANIDE

Samples MR-11_0.25-0.75 (460-161048-1) and MR-11_5-6.5 (460-161048-2) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The samples were prepared and analyzed on 07/25/2018.

Cyanide, Total failed the recovery criteria high for the MS/MSD of sample 460-161022-13 in batch 460-539562.

Refer to the QC report for details.

No other difficulties were encountered during the cyanide analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples MR-11_0.25-0.75 (460-161048-1) and MR-11_5-6.5 (460-161048-2) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 07/26/2018.

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

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161048-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-161048-1	MR-11_0.25-0.75	Solid	07/23/18 08:41	07/23/18 19:40
460-161048-2	MR-11_5-6.5	Solid	07/23/18 09:20	07/23/18 19:40

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161048-1

Client Sample ID: MR-11_0.25-0.75

Lab Sample ID: 460-161048-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.00036	J	0.0011	0.00019	mg/Kg	1	☼	8260C	Total/NA
o-Xylene	0.00026	J	0.0011	0.00010	mg/Kg	1	☼	8260C	Total/NA
Xylenes, Total	0.00062	J	0.0021	0.00027	mg/Kg	1	☼	8260C	Total/NA
2-Methylnaphthalene	0.029	J	0.40	0.0050	mg/Kg	1	☼	8270D	Total/NA
Acetophenone	0.073	J	0.40	0.0064	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.023	J	0.40	0.0044	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.027	J	0.040	0.014	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.025	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.039	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.11	J	0.40	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.015	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.41		0.40	0.021	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.037	J	0.40	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.028	J	0.40	0.0052	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.079		0.040	0.016	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.023	J	0.40	0.0069	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.039	J	0.40	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.030	J	0.40	0.0099	mg/Kg	1	☼	8270D	Total/NA
Aluminum	5630		21.5	7.4	mg/Kg	20	☼	6020B	Total/NA
Arsenic	6.5		1.1	0.34	mg/Kg	20	☼	6020B	Total/NA
Barium	89.3		2.1	0.71	mg/Kg	20	☼	6020B	Total/NA
Beryllium	0.23	J	0.43	0.17	mg/Kg	20	☼	6020B	Total/NA
Cadmium	0.41	J	1.1	0.36	mg/Kg	20	☼	6020B	Total/NA
Calcium	27300		107	31.9	mg/Kg	20	☼	6020B	Total/NA
Chromium	15.6		2.1	0.64	mg/Kg	20	☼	6020B	Total/NA
Cobalt	3.9		2.1	0.65	mg/Kg	20	☼	6020B	Total/NA
Copper	24.0		2.1	0.62	mg/Kg	20	☼	6020B	Total/NA
Iron	10700		64.5	22.6	mg/Kg	20	☼	6020B	Total/NA
Lead	70.4		0.64	0.20	mg/Kg	20	☼	6020B	Total/NA
Magnesium	11900		107	29.9	mg/Kg	20	☼	6020B	Total/NA
Manganese	139		4.3	1.3	mg/Kg	20	☼	6020B	Total/NA
Nickel	11.2		2.1	0.70	mg/Kg	20	☼	6020B	Total/NA
Potassium	941		107	38.7	mg/Kg	20	☼	6020B	Total/NA
Selenium	0.56	J	5.4	0.31	mg/Kg	20	☼	6020B	Total/NA
Sodium	245		107	33.6	mg/Kg	20	☼	6020B	Total/NA
Thallium	0.24	J	0.43	0.13	mg/Kg	20	☼	6020B	Total/NA
Vanadium	18.1		2.1	0.61	mg/Kg	20	☼	6020B	Total/NA
Zinc	178		8.6	4.2	mg/Kg	20	☼	6020B	Total/NA
Mercury	0.053		0.020	0.012	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: MR-11_5-6.5

Lab Sample ID: 460-161048-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.00037	J	0.0011	0.00025	mg/Kg	1	☼	8260C	Total/NA
1,2-Dichloroethane	0.00040	J	0.0011	0.00032	mg/Kg	1	☼	8260C	Total/NA
Acetone	0.0066		0.0055	0.0041	mg/Kg	1	☼	8260C	Total/NA
Benzene	0.0018		0.0011	0.00028	mg/Kg	1	☼	8260C	Total/NA
Chloroform	0.00057	J	0.0011	0.00035	mg/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.00071	J	0.0011	0.00022	mg/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.00057	J B	0.0011	0.00018	mg/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161048-1

Client Sample ID: MR-11_5-6.5 (Continued)

Lab Sample ID: 460-161048-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.0016		0.0011	0.00019	mg/Kg	1	☼		8260C	Total/NA
o-Xylene	0.00072	J	0.0011	0.00010	mg/Kg	1	☼		8260C	Total/NA
Toluene	0.0038		0.0011	0.00068	mg/Kg	1	☼		8260C	Total/NA
Xylenes, Total	0.0023		0.0022	0.00028	mg/Kg	1	☼		8260C	Total/NA
Acenaphthylene	0.011	J	0.39	0.0040	mg/Kg	1	☼		8270D	Total/NA
Benzo[a]anthracene	0.038	J	0.039	0.014	mg/Kg	1	☼		8270D	Total/NA
Benzo[a]pyrene	0.041		0.039	0.010	mg/Kg	1	☼		8270D	Total/NA
Benzo[b]fluoranthene	0.052		0.039	0.010	mg/Kg	1	☼		8270D	Total/NA
Benzo[g,h,i]perylene	0.028	J	0.39	0.011	mg/Kg	1	☼		8270D	Total/NA
Benzo[k]fluoranthene	0.026	J	0.039	0.0076	mg/Kg	1	☼		8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.12	J	0.39	0.021	mg/Kg	1	☼		8270D	Total/NA
Chrysene	0.045	J	0.39	0.0066	mg/Kg	1	☼		8270D	Total/NA
Fluoranthene	0.037	J	0.39	0.0051	mg/Kg	1	☼		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.033	J	0.039	0.015	mg/Kg	1	☼		8270D	Total/NA
Phenanthrene	0.020	J	0.39	0.0068	mg/Kg	1	☼		8270D	Total/NA
Pyrene	0.037	J	0.39	0.0097	mg/Kg	1	☼		8270D	Total/NA
Aluminum	9740		22.2	7.6	mg/Kg	20	☼		6020B	Total/NA
Arsenic	3.4		1.1	0.36	mg/Kg	20	☼		6020B	Total/NA
Barium	306		2.2	0.74	mg/Kg	20	☼		6020B	Total/NA
Beryllium	0.40	J	0.44	0.18	mg/Kg	20	☼		6020B	Total/NA
Calcium	21900		111	33.0	mg/Kg	20	☼		6020B	Total/NA
Chromium	15.7		2.2	0.67	mg/Kg	20	☼		6020B	Total/NA
Cobalt	5.9		2.2	0.67	mg/Kg	20	☼		6020B	Total/NA
Copper	20.2		2.2	0.64	mg/Kg	20	☼		6020B	Total/NA
Iron	15000		66.6	23.3	mg/Kg	20	☼		6020B	Total/NA
Lead	95.3		0.67	0.21	mg/Kg	20	☼		6020B	Total/NA
Magnesium	16300		111	30.9	mg/Kg	20	☼		6020B	Total/NA
Manganese	206		4.4	1.4	mg/Kg	20	☼		6020B	Total/NA
Nickel	12.1		2.2	0.72	mg/Kg	20	☼		6020B	Total/NA
Potassium	1840		111	40.0	mg/Kg	20	☼		6020B	Total/NA
Sodium	337		111	34.8	mg/Kg	20	☼		6020B	Total/NA
Thallium	0.16	J	0.44	0.14	mg/Kg	20	☼		6020B	Total/NA
Vanadium	22.3		2.2	0.63	mg/Kg	20	☼		6020B	Total/NA
Zinc	351		8.9	4.3	mg/Kg	20	☼		6020B	Total/NA
Mercury	0.13		0.020	0.012	mg/Kg	1	☼		7471B	Total/NA
Cyanide, Total	0.32		0.24	0.064	mg/Kg	1	☼		9012B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Method Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161048-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
8081B	Organochlorine Pesticides (GC)	SW846	TAL EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL EDI
8151A	Herbicides (GC)	SW846	TAL EDI
6020B	Metals (ICP/MS)	SW846	TAL EDI
7471B	Mercury (CVAA)	SW846	TAL EDI
9012B	Cyanide, Total and/or Amenable	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
3050B	Preparation, Metals	SW846	TAL EDI
3546	Microwave Extraction	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI
7471B	Preparation, Mercury	SW846	TAL EDI
8151A	Extraction (Herbicides)	SW846	TAL EDI
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161048-1

Client Sample ID: MR-11_0.25-0.75

Date Collected: 07/23/18 08:41

Date Received: 07/23/18 19:40

Lab Sample ID: 460-161048-1

Matrix: Solid

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0011	U	0.0011	0.00025	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
1,1,2,2-Tetrachloroethane	0.0011	U	0.0011	0.00023	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0011	U	0.0011	0.00032	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
1,1,2-Trichloroethane	0.0011	U	0.0011	0.00019	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
1,1-Dichloroethane	0.0011	U	0.0011	0.00022	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
1,1-Dichloroethene	0.0011	U	0.0011	0.00024	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
1,2,3-Trichlorobenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
1,2,4-Trichlorobenzene	0.0011	U	0.0011	0.000099	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
1,2,4-Trimethylbenzene	0.0011	U	0.0011	0.00010	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
1,2-Dibromo-3-Chloropropane	0.0011	U	0.0011	0.00049	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
1,2-Dichlorobenzene	0.0011	U	0.0011	0.00015	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
1,2-Dichloroethane	0.0011	U	0.0011	0.00032	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
1,2-Dichloropropane	0.0011	U	0.0011	0.00045	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
1,3,5-Trimethylbenzene	0.0011	U	0.0011	0.00012	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
1,3-Dichlorobenzene	0.0011	U	0.0011	0.00017	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
1,4-Dichlorobenzene	0.0011	U	0.0011	0.00011	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
1,4-Dioxane	0.021	U	0.021	0.0098	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
2-Butanone (MEK)	0.0054	U	0.0054	0.0012	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
2-Hexanone	0.0054	U	0.0054	0.00084	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
4-Methyl-2-pentanone (MIBK)	0.0054	U	0.0054	0.00071	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Acetone	0.0054	U	0.0054	0.0041	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Benzene	0.0011	U	0.0011	0.00028	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Bromoform	0.0011	U	0.0011	0.00046	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Bromomethane	0.0011	U	0.0011	0.00051	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Carbon disulfide	0.0011	U	0.0011	0.00029	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Carbon tetrachloride	0.0011	U	0.0011	0.00019	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Chlorobenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Chlorobromomethane	0.0011	U	0.0011	0.00030	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Chlorodibromomethane	0.0011	U	0.0011	0.00021	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Chloroethane	0.0011	U	0.0011	0.00056	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Chloroform	0.0011	U	0.0011	0.00034	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Chloromethane	0.0011	U	0.0011	0.00047	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
cis-1,2-Dichloroethene	0.0011	U	0.0011	0.00016	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
cis-1,3-Dichloropropene	0.0011	U	0.0011	0.00029	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Cyclohexane	0.0011	U	0.0011	0.00024	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Dichlorobromomethane	0.0011	U	0.0011	0.00028	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Dichlorodifluoromethane	0.0011	U	0.0011	0.00036	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Ethylbenzene	0.0011	U	0.0011	0.00021	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Ethylene Dibromide	0.0011	U	0.0011	0.00019	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Isopropylbenzene	0.0011	U	0.0011	0.00014	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Methyl acetate	0.0054	U	0.0054	0.0046	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Methyl tert-butyl ether	0.0011	U	0.0011	0.00013	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Methylcyclohexane	0.0011	U	0.0011	0.00017	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Methylene Chloride	0.0011	U	0.0011	0.00017	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
m-Xylene & p-Xylene	0.00036	J	0.0011	0.00019	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
n-Butylbenzene	0.0011	U	0.0011	0.00015	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
N-Propylbenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
o-Xylene	0.00026	J	0.0011	0.00010	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
sec-Butylbenzene	0.0011	U	0.0011	0.000094	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161048-1

Client Sample ID: MR-11_0.25-0.75

Lab Sample ID: 460-161048-1

Date Collected: 07/23/18 08:41

Matrix: Solid

Date Received: 07/23/18 19:40

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.0011	U	0.0011	0.00013	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
tert-Butylbenzene	0.0011	U	0.0011	0.00013	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Tetrachloroethene	0.0011	U	0.0011	0.00015	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Toluene	0.0011	U	0.0011	0.00067	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
trans-1,2-Dichloroethene	0.0011	U	0.0011	0.00026	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
trans-1,3-Dichloropropene	0.0011	U	0.0011	0.00029	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Trichloroethene	0.0011	U	0.0011	0.00015	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Trichlorofluoromethane	0.0011	U	0.0011	0.00044	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Vinyl chloride	0.0011	U	0.0011	0.00059	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1
Xylenes, Total	0.00062	J	0.0021	0.00027	mg/Kg	☼	07/24/18 08:11	07/27/18 10:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		78 - 135	07/24/18 08:11	07/27/18 10:55	1
4-Bromofluorobenzene	99		67 - 126	07/24/18 08:11	07/27/18 10:55	1
Dibromofluoromethane (Surr)	100		61 - 149	07/24/18 08:11	07/27/18 10:55	1
Toluene-d8 (Surr)	100		73 - 121	07/24/18 08:11	07/27/18 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.40	U	0.40	0.0053	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
1,2,4,5-Tetrachlorobenzene	0.40	U	0.40	0.0052	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
2,2'-oxybis[1-chloropropane]	0.40	U	0.40	0.0072	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
2,3,4,6-Tetrachlorophenol	0.40	U	0.40	0.027	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
2,4,5-Trichlorophenol	0.40	U	0.40	0.013	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
2,4,6-Trichlorophenol	0.16	U	0.16	0.020	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
2,4-Dichlorophenol	0.16	U	0.16	0.0084	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
2,4-Dimethylphenol	0.40	U	0.40	0.017	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
2,4-Dinitrophenol	0.32	U	0.32	0.20	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
2,4-Dinitrotoluene	0.080	U	0.080	0.020	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
2,6-Dinitrotoluene	0.080	U	0.080	0.013	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
2-Chloronaphthalene	0.40	U	0.40	0.018	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
2-Chlorophenol	0.40	U	0.40	0.0056	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
2-Methylnaphthalene	0.029	J	0.40	0.0050	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
2-Methylphenol	0.40	U *	0.40	0.0064	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
2-Nitroaniline	0.40	U	0.40	0.015	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
2-Nitrophenol	0.40	U	0.40	0.013	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
3 & 4 Methylphenol	0.40	U	0.40	0.0068	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
3,3'-Dichlorobenzidine	0.16	U	0.16	0.060	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
3-Nitroaniline	0.40	U	0.40	0.022	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
4,6-Dinitro-2-methylphenol	0.32	U	0.32	0.065	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
4-Bromophenyl phenyl ether	0.40	U	0.40	0.0051	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
4-Chloro-3-methylphenol	0.40	U	0.40	0.0066	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
4-Chloroaniline	0.40	U	0.40	0.028	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
4-Chlorophenyl phenyl ether	0.40	U	0.40	0.0063	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
4-Methylphenol	0.40	U	0.40	0.0068	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
4-Nitroaniline	0.40	U	0.40	0.015	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
4-Nitrophenol	0.80	U	0.80	0.065	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Acenaphthene	0.40	U	0.40	0.029	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Acenaphthylene	0.40	U	0.40	0.0041	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Acetophenone	0.073	J	0.40	0.0064	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161048-1

Client Sample ID: MR-11_0.25-0.75

Lab Sample ID: 460-161048-1

Date Collected: 07/23/18 08:41

Matrix: Solid

Date Received: 07/23/18 19:40

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.023	J	0.40	0.0044	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Atrazine	0.16	U	0.16	0.010	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Benzaldehyde	0.40	U	0.40	0.017	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Benzo[a]anthracene	0.027	J	0.040	0.014	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Benzo[a]pyrene	0.025	J	0.040	0.011	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Benzo[b]fluoranthene	0.039	J	0.040	0.010	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Benzo[g,h,i]perylene	0.11	J	0.40	0.012	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Benzo[k]fluoranthene	0.015	J	0.040	0.0078	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Bis(2-chloroethoxy)methane	0.40	U *	0.40	0.014	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Bis(2-chloroethyl)ether	0.040	U *	0.040	0.0048	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Bis(2-ethylhexyl) phthalate	0.41		0.40	0.021	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Butyl benzyl phthalate	0.40	U	0.40	0.019	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Caprolactam	0.40	U	0.40	0.024	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Carbazole	0.40	U	0.40	0.0047	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Chrysene	0.037	J	0.40	0.0067	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Dibenz(a,h)anthracene	0.040	U	0.040	0.017	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Dibenzofuran	0.40	U	0.40	0.0056	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Diethyl phthalate	0.40	U	0.40	0.0058	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Dimethyl phthalate	0.40	U	0.40	0.0048	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Di-n-butyl phthalate	0.40	U	0.40	0.070	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Di-n-octyl phthalate	0.40	U	0.40	0.021	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Fluoranthene	0.028	J	0.40	0.0052	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Fluorene	0.40	U	0.40	0.0054	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Hexachlorobenzene	0.040	U	0.040	0.0058	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Hexachlorobutadiene	0.080	U	0.080	0.0085	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Hexachlorocyclopentadiene	0.40	U	0.40	0.035	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Hexachloroethane	0.040	U	0.040	0.0061	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Indeno[1,2,3-cd]pyrene	0.079		0.040	0.016	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Isophorone	0.16	U	0.16	0.010	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Naphthalene	0.023	J	0.40	0.0069	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Nitrobenzene	0.040	U	0.040	0.0095	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
N-Nitrosodi-n-propylamine	0.040	U	0.040	0.0063	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
N-Nitrosodiphenylamine	0.40	U	0.40	0.0076	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Pentachlorophenol	0.32	U	0.32	0.081	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Phenanthrene	0.039	J	0.40	0.0070	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Phenol	0.40	U *	0.40	0.0059	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1
Pyrene	0.030	J	0.40	0.0099	mg/Kg	☼	07/24/18 23:53	07/26/18 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		10 - 103	07/24/18 23:53	07/26/18 18:46	1
2-Fluorobiphenyl	86		38 - 95	07/24/18 23:53	07/26/18 18:46	1
2-Fluorophenol (Surr)	93	*	25 - 92	07/24/18 23:53	07/26/18 18:46	1
Nitrobenzene-d5 (Surr)	90		37 - 94	07/24/18 23:53	07/26/18 18:46	1
Phenol-d5 (Surr)	87		32 - 91	07/24/18 23:53	07/26/18 18:46	1
Terphenyl-d14 (Surr)	85		24 - 109	07/24/18 23:53	07/26/18 18:46	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0081	U	0.0081	0.0014	mg/Kg	☼	07/24/18 20:34	07/25/18 14:10	1
4,4'-DDE	0.0081	U	0.0081	0.00095	mg/Kg	☼	07/24/18 20:34	07/25/18 14:10	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161048-1

Client Sample ID: MR-11_0.25-0.75

Lab Sample ID: 460-161048-1

Date Collected: 07/23/18 08:41

Matrix: Solid

Date Received: 07/23/18 19:40

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	0.0081	U	0.0081	0.0015	mg/Kg	☼	07/24/18 20:34	07/25/18 14:10	1
Aldrin	0.0081	U	0.0081	0.0012	mg/Kg	☼	07/24/18 20:34	07/25/18 14:10	1
alpha-BHC	0.0024	U	0.0024	0.00082	mg/Kg	☼	07/24/18 20:34	07/25/18 14:10	1
beta-BHC	0.0024	U	0.0024	0.00090	mg/Kg	☼	07/24/18 20:34	07/25/18 14:10	1
Chlordane (technical)	0.081	U	0.081	0.019	mg/Kg	☼	07/24/18 20:34	07/25/18 14:10	1
cis-Chlordane	0.0081	U	0.0081	0.0013	mg/Kg	☼	07/24/18 20:34	07/25/18 14:10	1
delta-BHC	0.0024	U	0.0024	0.00049	mg/Kg	☼	07/24/18 20:34	07/25/18 14:10	1
Dieldrin	0.0024	U	0.0024	0.0010	mg/Kg	☼	07/24/18 20:34	07/25/18 14:10	1
Endosulfan I	0.0081	U	0.0081	0.0012	mg/Kg	☼	07/24/18 20:34	07/25/18 14:10	1
Endosulfan II	0.0081	U	0.0081	0.0021	mg/Kg	☼	07/24/18 20:34	07/25/18 14:10	1
Endosulfan sulfate	0.0081	U	0.0081	0.0010	mg/Kg	☼	07/24/18 20:34	07/25/18 14:10	1
Endrin	0.0081	U	0.0081	0.0012	mg/Kg	☼	07/24/18 20:34	07/25/18 14:10	1
Endrin aldehyde	0.0081	U	0.0081	0.0019	mg/Kg	☼	07/24/18 20:34	07/25/18 14:10	1
Endrin ketone	0.0081	U	0.0081	0.0016	mg/Kg	☼	07/24/18 20:34	07/25/18 14:10	1
gamma-BHC (Lindane)	0.0024	U	0.0024	0.00075	mg/Kg	☼	07/24/18 20:34	07/25/18 14:10	1
Heptachlor	0.0081	U	0.0081	0.00095	mg/Kg	☼	07/24/18 20:34	07/25/18 14:10	1
Heptachlor epoxide	0.0081	U	0.0081	0.0012	mg/Kg	☼	07/24/18 20:34	07/25/18 14:10	1
Methoxychlor	0.0081	U	0.0081	0.0018	mg/Kg	☼	07/24/18 20:34	07/25/18 14:10	1
Toxaphene	0.081	U	0.081	0.029	mg/Kg	☼	07/24/18 20:34	07/25/18 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	92		69 - 150	07/24/18 20:34	07/25/18 14:10	1
DCB Decachlorobiphenyl	91		69 - 150	07/24/18 20:34	07/25/18 14:10	1
Tetrachloro-m-xylene	94		74 - 150	07/24/18 20:34	07/25/18 14:10	1
Tetrachloro-m-xylene	93		74 - 150	07/24/18 20:34	07/25/18 14:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.081	U	0.081	0.011	mg/Kg	☼	07/24/18 20:39	07/25/18 19:11	1
Aroclor 1221	0.081	U	0.081	0.011	mg/Kg	☼	07/24/18 20:39	07/25/18 19:11	1
Aroclor 1232	0.081	U	0.081	0.011	mg/Kg	☼	07/24/18 20:39	07/25/18 19:11	1
Aroclor 1242	0.081	U	0.081	0.011	mg/Kg	☼	07/24/18 20:39	07/25/18 19:11	1
Aroclor 1248	0.081	U	0.081	0.011	mg/Kg	☼	07/24/18 20:39	07/25/18 19:11	1
Aroclor 1254	0.081	U	0.081	0.011	mg/Kg	☼	07/24/18 20:39	07/25/18 19:11	1
Aroclor 1260	0.081	U	0.081	0.011	mg/Kg	☼	07/24/18 20:39	07/25/18 19:11	1
Aroclor-1262	0.081	U	0.081	0.011	mg/Kg	☼	07/24/18 20:39	07/25/18 19:11	1
Aroclor 1268	0.081	U	0.081	0.011	mg/Kg	☼	07/24/18 20:39	07/25/18 19:11	1
Polychlorinated biphenyls, Total	0.081	U	0.081	0.011	mg/Kg	☼	07/24/18 20:39	07/25/18 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	84		53 - 150	07/24/18 20:39	07/25/18 19:11	1
DCB Decachlorobiphenyl	94		53 - 150	07/24/18 20:39	07/25/18 19:11	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.040	U	0.040	0.0085	mg/Kg	☼	07/26/18 23:01	07/29/18 00:05	1
2,4-D	0.040	U	0.040	0.015	mg/Kg	☼	07/26/18 23:01	07/29/18 00:05	1
Silvex (2,4,5-TP)	0.040	U	0.040	0.0042	mg/Kg	☼	07/26/18 23:01	07/29/18 00:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	113		80 - 150	07/26/18 23:01	07/29/18 00:05	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161048-1

Client Sample ID: MR-11_0.25-0.75

Date Collected: 07/23/18 08:41

Date Received: 07/23/18 19:40

Lab Sample ID: 460-161048-1

Matrix: Solid

Percent Solids: 83.1

Method: 8151A - Herbicides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	119		80 - 150	07/26/18 23:01	07/29/18 00:05	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5630		21.5	7.4	mg/Kg	☼	07/25/18 01:29	07/25/18 20:30	20
Antimony	1.1	U	1.1	0.31	mg/Kg	☼	07/25/18 01:29	07/25/18 20:30	20
Arsenic	6.5		1.1	0.34	mg/Kg	☼	07/25/18 01:29	07/25/18 20:30	20
Barium	89.3		2.1	0.71	mg/Kg	☼	07/25/18 01:29	07/25/18 20:30	20
Beryllium	0.23	J	0.43	0.17	mg/Kg	☼	07/25/18 01:29	07/25/18 20:30	20
Cadmium	0.41	J	1.1	0.36	mg/Kg	☼	07/25/18 01:29	07/25/18 20:30	20
Calcium	27300		107	31.9	mg/Kg	☼	07/25/18 01:29	07/25/18 20:30	20
Chromium	15.6		2.1	0.64	mg/Kg	☼	07/25/18 01:29	07/25/18 20:30	20
Cobalt	3.9		2.1	0.65	mg/Kg	☼	07/25/18 01:29	07/25/18 20:30	20
Copper	24.0		2.1	0.62	mg/Kg	☼	07/25/18 01:29	07/25/18 20:30	20
Iron	10700		64.5	22.6	mg/Kg	☼	07/25/18 01:29	07/25/18 20:30	20
Lead	70.4		0.64	0.20	mg/Kg	☼	07/25/18 01:29	07/25/18 20:30	20
Magnesium	11900		107	29.9	mg/Kg	☼	07/25/18 01:29	07/25/18 20:30	20
Manganese	139		4.3	1.3	mg/Kg	☼	07/25/18 01:29	07/25/18 20:30	20
Nickel	11.2		2.1	0.70	mg/Kg	☼	07/25/18 01:29	07/25/18 22:19	20
Potassium	941		107	38.7	mg/Kg	☼	07/25/18 01:29	07/25/18 20:30	20
Selenium	0.56	J	5.4	0.31	mg/Kg	☼	07/25/18 01:29	07/25/18 20:30	20
Silver	1.1	U	1.1	0.66	mg/Kg	☼	07/25/18 01:29	07/25/18 20:30	20
Sodium	245		107	33.6	mg/Kg	☼	07/25/18 01:29	07/25/18 20:30	20
Thallium	0.24	J	0.43	0.13	mg/Kg	☼	07/25/18 01:29	07/25/18 20:30	20
Vanadium	18.1		2.1	0.61	mg/Kg	☼	07/25/18 01:29	07/25/18 20:30	20
Zinc	178		8.6	4.2	mg/Kg	☼	07/25/18 01:29	07/25/18 20:30	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.053		0.020	0.012	mg/Kg	☼	07/25/18 05:03	07/25/18 09:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.29	U	0.29	0.076	mg/Kg	☼	07/25/18 08:20	07/25/18 12:57	1

Client Sample ID: MR-11_5-6.5

Date Collected: 07/23/18 09:20

Date Received: 07/23/18 19:40

Lab Sample ID: 460-161048-2

Matrix: Solid

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0011	U	0.0011	0.00025	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
1,1,2,2-Tetrachloroethane	0.0011	U	0.0011	0.00023	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0011	U	0.0011	0.00033	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
1,1,2-Trichloroethane	0.0011	U	0.0011	0.00019	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
1,1-Dichloroethane	0.0011	U	0.0011	0.00023	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
1,1-Dichloroethene	0.00037	J	0.0011	0.00025	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
1,2,3-Trichlorobenzene	0.0011	U	0.0011	0.00020	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
1,2,4-Trichlorobenzene	0.0011	U	0.0011	0.00010	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
1,2,4-Trimethylbenzene	0.0011	U	0.0011	0.00010	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161048-1

Client Sample ID: MR-11_5-6.5

Lab Sample ID: 460-161048-2

Date Collected: 07/23/18 09:20

Matrix: Solid

Date Received: 07/23/18 19:40

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	0.0011	U	0.0011	0.00050	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
1,2-Dichlorobenzene	0.0011	U	0.0011	0.00016	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
1,2-Dichloroethane	0.00040	J	0.0011	0.00032	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
1,2-Dichloropropane	0.0011	U	0.0011	0.00046	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
1,3,5-Trimethylbenzene	0.0011	U	0.0011	0.00013	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
1,3-Dichlorobenzene	0.0011	U	0.0011	0.00017	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
1,4-Dichlorobenzene	0.0011	U	0.0011	0.00011	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
1,4-Dioxane	0.022	U	0.022	0.010	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
2-Butanone (MEK)	0.0055	U	0.0055	0.0012	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
2-Hexanone	0.0055	U	0.0055	0.00085	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
4-Methyl-2-pentanone (MIBK)	0.0055	U	0.0055	0.00073	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Acetone	0.0066		0.0055	0.0041	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Benzene	0.0018		0.0011	0.00028	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Bromoform	0.0011	U	0.0011	0.00046	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Bromomethane	0.0011	U	0.0011	0.00052	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Carbon disulfide	0.0011	U	0.0011	0.00029	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Carbon tetrachloride	0.0011	U	0.0011	0.00020	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Chlorobenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Chlorobromomethane	0.0011	U	0.0011	0.00031	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Chlorodibromomethane	0.0011	U	0.0011	0.00021	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Chloroethane	0.0011	U	0.0011	0.00057	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Chloroform	0.00057	J	0.0011	0.00035	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Chloromethane	0.0011	U	0.0011	0.00048	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
cis-1,2-Dichloroethene	0.0011	U	0.0011	0.00017	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
cis-1,3-Dichloropropene	0.0011	U	0.0011	0.00030	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Cyclohexane	0.0011	U	0.0011	0.00024	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Dichlorobromomethane	0.0011	U	0.0011	0.00028	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Dichlorodifluoromethane	0.0011	U	0.0011	0.00037	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Ethylbenzene	0.00071	J	0.0011	0.00022	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Ethylene Dibromide	0.0011	U	0.0011	0.00020	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Isopropylbenzene	0.0011	U	0.0011	0.00014	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Methyl acetate	0.0055	U	0.0055	0.0047	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Methyl tert-butyl ether	0.0011	U	0.0011	0.00014	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Methylcyclohexane	0.0011	U	0.0011	0.00017	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Methylene Chloride	0.00057	J B	0.0011	0.00018	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
m-Xylene & p-Xylene	0.0016		0.0011	0.00019	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
n-Butylbenzene	0.0011	U	0.0011	0.00016	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
N-Propylbenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
o-Xylene	0.00072	J	0.0011	0.00010	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
sec-Butylbenzene	0.0011	U	0.0011	0.000096	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Styrene	0.0011	U	0.0011	0.00013	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
tert-Butylbenzene	0.0011	U	0.0011	0.00014	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Tetrachloroethene	0.0011	U	0.0011	0.00016	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Toluene	0.0038		0.0011	0.00068	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
trans-1,2-Dichloroethene	0.0011	U	0.0011	0.00027	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
trans-1,3-Dichloropropene	0.0011	U	0.0011	0.00029	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Trichloroethene	0.0011	U	0.0011	0.00016	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Trichlorofluoromethane	0.0011	U	0.0011	0.00044	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Vinyl chloride	0.0011	U	0.0011	0.00060	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161048-1

Client Sample ID: MR-11_5-6.5

Lab Sample ID: 460-161048-2

Date Collected: 07/23/18 09:20

Matrix: Solid

Date Received: 07/23/18 19:40

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.0023		0.0022	0.00028	mg/Kg	☼	07/24/18 08:12	07/27/18 02:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		78 - 135				07/24/18 08:12	07/27/18 02:25	1
4-Bromofluorobenzene	97		67 - 126				07/24/18 08:12	07/27/18 02:25	1
Dibromofluoromethane (Surr)	101		61 - 149				07/24/18 08:12	07/27/18 02:25	1
Toluene-d8 (Surr)	100		73 - 121				07/24/18 08:12	07/27/18 02:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.39	U	0.39	0.0052	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
1,2,4,5-Tetrachlorobenzene	0.39	U	0.39	0.0051	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
2,2'-oxybis[1-chloropropane]	0.39	U	0.39	0.0070	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
2,3,4,6-Tetrachlorophenol	0.39	U	0.39	0.026	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
2,4,5-Trichlorophenol	0.39	U	0.39	0.013	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
2,4,6-Trichlorophenol	0.16	U	0.16	0.020	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
2,4-Dichlorophenol	0.16	U	0.16	0.0082	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
2,4-Dimethylphenol	0.39	U	0.39	0.017	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
2,4-Dinitrophenol	0.31	U	0.31	0.19	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
2,4-Dinitrotoluene	0.079	U	0.079	0.020	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
2,6-Dinitrotoluene	0.079	U	0.079	0.013	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
2-Chloronaphthalene	0.39	U	0.39	0.018	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
2-Chlorophenol	0.39	U	0.39	0.0054	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
2-Methylnaphthalene	0.39	U	0.39	0.0049	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
2-Methylphenol	0.39	U *	0.39	0.0063	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
2-Nitroaniline	0.39	U	0.39	0.015	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
2-Nitrophenol	0.39	U	0.39	0.012	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
3 & 4 Methylphenol	0.39	U	0.39	0.0066	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
3,3'-Dichlorobenzidine	0.16	U	0.16	0.059	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
3-Nitroaniline	0.39	U	0.39	0.021	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
4,6-Dinitro-2-methylphenol	0.31	U	0.31	0.063	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
4-Bromophenyl phenyl ether	0.39	U	0.39	0.0050	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
4-Chloro-3-methylphenol	0.39	U	0.39	0.0065	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
4-Chloroaniline	0.39	U	0.39	0.027	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
4-Chlorophenyl phenyl ether	0.39	U	0.39	0.0061	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
4-Methylphenol	0.39	U	0.39	0.0066	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
4-Nitroaniline	0.39	U	0.39	0.014	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
4-Nitrophenol	0.79	U	0.79	0.063	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Acenaphthene	0.39	U	0.39	0.028	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Acenaphthylene	0.011	J	0.39	0.0040	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Acetophenone	0.39	U	0.39	0.0063	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Anthracene	0.39	U	0.39	0.0043	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Atrazine	0.16	U	0.16	0.0098	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Benzaldehyde	0.39	U	0.39	0.017	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Benzo[a]anthracene	0.038	J	0.039	0.014	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Benzo[a]pyrene	0.041		0.039	0.010	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Benzo[b]fluoranthene	0.052		0.039	0.010	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Benzo[g,h,i]perylene	0.028	J	0.39	0.011	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Benzo[k]fluoranthene	0.026	J	0.039	0.0076	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Bis(2-chloroethoxy)methane	0.39	U *	0.39	0.013	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161048-1

Client Sample ID: MR-11_5-6.5

Lab Sample ID: 460-161048-2

Date Collected: 07/23/18 09:20

Matrix: Solid

Date Received: 07/23/18 19:40

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	0.039	U *	0.039	0.0047	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Bis(2-ethylhexyl) phthalate	0.12	J	0.39	0.021	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Butyl benzyl phthalate	0.39	U	0.39	0.018	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Caprolactam	0.39	U	0.39	0.023	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Carbazole	0.39	U	0.39	0.0046	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Chrysene	0.045	J	0.39	0.0066	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Dibenz(a,h)anthracene	0.039	U	0.039	0.017	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Dibenzofuran	0.39	U	0.39	0.0055	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Diethyl phthalate	0.39	U	0.39	0.0056	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Dimethyl phthalate	0.39	U	0.39	0.0047	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Di-n-butyl phthalate	0.39	U	0.39	0.069	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Di-n-octyl phthalate	0.39	U	0.39	0.021	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Fluoranthene	0.037	J	0.39	0.0051	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Fluorene	0.39	U	0.39	0.0053	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Hexachlorobenzene	0.039	U	0.039	0.0057	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Hexachlorobutadiene	0.079	U	0.079	0.0083	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Hexachlorocyclopentadiene	0.39	U	0.39	0.034	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Hexachloroethane	0.039	U	0.039	0.0060	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Indeno[1,2,3-cd]pyrene	0.033	J	0.039	0.015	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Isophorone	0.16	U	0.16	0.010	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Naphthalene	0.39	U	0.39	0.0067	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Nitrobenzene	0.039	U	0.039	0.0093	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
N-Nitrosodi-n-propylamine	0.039	U	0.039	0.0062	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
N-Nitrosodiphenylamine	0.39	U	0.39	0.0074	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Pentachlorophenol	0.31	U	0.31	0.080	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Phenanthrene	0.020	J	0.39	0.0068	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Phenol	0.39	U *	0.39	0.0058	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1
Pyrene	0.037	J	0.39	0.0097	mg/Kg	☼	07/24/18 23:53	07/26/18 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		10 - 103	07/24/18 23:53	07/26/18 15:51	1
2-Fluorobiphenyl	88		38 - 95	07/24/18 23:53	07/26/18 15:51	1
2-Fluorophenol (Surr)	94	*	25 - 92	07/24/18 23:53	07/26/18 15:51	1
Nitrobenzene-d5 (Surr)	91		37 - 94	07/24/18 23:53	07/26/18 15:51	1
Phenol-d5 (Surr)	87		32 - 91	07/24/18 23:53	07/26/18 15:51	1
Terphenyl-d14 (Surr)	88		24 - 109	07/24/18 23:53	07/26/18 15:51	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0079	U	0.0079	0.0013	mg/Kg	☼	07/24/18 20:34	07/25/18 14:23	1
4,4'-DDE	0.0079	U	0.0079	0.00093	mg/Kg	☼	07/24/18 20:34	07/25/18 14:23	1
4,4'-DDT	0.0079	U	0.0079	0.0014	mg/Kg	☼	07/24/18 20:34	07/25/18 14:23	1
Aldrin	0.0079	U	0.0079	0.0012	mg/Kg	☼	07/24/18 20:34	07/25/18 14:23	1
alpha-BHC	0.0023	U	0.0023	0.00080	mg/Kg	☼	07/24/18 20:34	07/25/18 14:23	1
beta-BHC	0.0023	U	0.0023	0.00088	mg/Kg	☼	07/24/18 20:34	07/25/18 14:23	1
Chlordane (technical)	0.079	U	0.079	0.019	mg/Kg	☼	07/24/18 20:34	07/25/18 14:23	1
cis-Chlordane	0.0079	U	0.0079	0.0012	mg/Kg	☼	07/24/18 20:34	07/25/18 14:23	1
delta-BHC	0.0023	U	0.0023	0.00048	mg/Kg	☼	07/24/18 20:34	07/25/18 14:23	1
Dieldrin	0.0023	U	0.0023	0.0010	mg/Kg	☼	07/24/18 20:34	07/25/18 14:23	1
Endosulfan I	0.0079	U	0.0079	0.0012	mg/Kg	☼	07/24/18 20:34	07/25/18 14:23	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161048-1

Client Sample ID: MR-11_5-6.5

Lab Sample ID: 460-161048-2

Date Collected: 07/23/18 09:20

Matrix: Solid

Date Received: 07/23/18 19:40

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	0.0079	U	0.0079	0.0020	mg/Kg	☼	07/24/18 20:34	07/25/18 14:23	1
Endosulfan sulfate	0.0079	U	0.0079	0.00099	mg/Kg	☼	07/24/18 20:34	07/25/18 14:23	1
Endrin	0.0079	U	0.0079	0.0011	mg/Kg	☼	07/24/18 20:34	07/25/18 14:23	1
Endrin aldehyde	0.0079	U	0.0079	0.0019	mg/Kg	☼	07/24/18 20:34	07/25/18 14:23	1
Endrin ketone	0.0079	U	0.0079	0.0015	mg/Kg	☼	07/24/18 20:34	07/25/18 14:23	1
gamma-BHC (Lindane)	0.0023	U	0.0023	0.00073	mg/Kg	☼	07/24/18 20:34	07/25/18 14:23	1
Heptachlor	0.0079	U	0.0079	0.00093	mg/Kg	☼	07/24/18 20:34	07/25/18 14:23	1
Heptachlor epoxide	0.0079	U	0.0079	0.0012	mg/Kg	☼	07/24/18 20:34	07/25/18 14:23	1
Methoxychlor	0.0079	U	0.0079	0.0018	mg/Kg	☼	07/24/18 20:34	07/25/18 14:23	1
Toxaphene	0.079	U	0.079	0.028	mg/Kg	☼	07/24/18 20:34	07/25/18 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	87		69 - 150	07/24/18 20:34	07/25/18 14:23	1
DCB Decachlorobiphenyl	88		69 - 150	07/24/18 20:34	07/25/18 14:23	1
Tetrachloro-m-xylene	92		74 - 150	07/24/18 20:34	07/25/18 14:23	1
Tetrachloro-m-xylene	91		74 - 150	07/24/18 20:34	07/25/18 14:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.079	U	0.079	0.010	mg/Kg	☼	07/24/18 20:39	07/25/18 19:28	1
Aroclor 1221	0.079	U	0.079	0.010	mg/Kg	☼	07/24/18 20:39	07/25/18 19:28	1
Aroclor 1232	0.079	U	0.079	0.010	mg/Kg	☼	07/24/18 20:39	07/25/18 19:28	1
Aroclor 1242	0.079	U	0.079	0.010	mg/Kg	☼	07/24/18 20:39	07/25/18 19:28	1
Aroclor 1248	0.079	U	0.079	0.010	mg/Kg	☼	07/24/18 20:39	07/25/18 19:28	1
Aroclor 1254	0.079	U	0.079	0.011	mg/Kg	☼	07/24/18 20:39	07/25/18 19:28	1
Aroclor 1260	0.079	U	0.079	0.011	mg/Kg	☼	07/24/18 20:39	07/25/18 19:28	1
Aroclor-1262	0.079	U	0.079	0.011	mg/Kg	☼	07/24/18 20:39	07/25/18 19:28	1
Aroclor 1268	0.079	U	0.079	0.011	mg/Kg	☼	07/24/18 20:39	07/25/18 19:28	1
Polychlorinated biphenyls, Total	0.079	U	0.079	0.011	mg/Kg	☼	07/24/18 20:39	07/25/18 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	90		53 - 150	07/24/18 20:39	07/25/18 19:28	1
DCB Decachlorobiphenyl	100		53 - 150	07/24/18 20:39	07/25/18 19:28	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.039	U	0.039	0.0083	mg/Kg	☼	07/26/18 23:01	07/29/18 00:20	1
2,4-D	0.039	U	0.039	0.014	mg/Kg	☼	07/26/18 23:01	07/29/18 00:20	1
Silvex (2,4,5-TP)	0.039	U	0.039	0.0041	mg/Kg	☼	07/26/18 23:01	07/29/18 00:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	112		80 - 150	07/26/18 23:01	07/29/18 00:20	1
2,4-Dichlorophenylacetic acid	121		80 - 150	07/26/18 23:01	07/29/18 00:20	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9740		22.2	7.6	mg/Kg	☼	07/25/18 01:29	07/25/18 20:33	20
Antimony	1.1	U	1.1	0.33	mg/Kg	☼	07/25/18 01:29	07/25/18 20:33	20
Arsenic	3.4		1.1	0.36	mg/Kg	☼	07/25/18 01:29	07/25/18 20:33	20
Barium	306		2.2	0.74	mg/Kg	☼	07/25/18 01:29	07/25/18 20:33	20
Beryllium	0.40	J	0.44	0.18	mg/Kg	☼	07/25/18 01:29	07/25/18 20:33	20

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161048-1

Client Sample ID: MR-11_5-6.5

Date Collected: 07/23/18 09:20

Date Received: 07/23/18 19:40

Lab Sample ID: 460-161048-2

Matrix: Solid

Percent Solids: 84.9

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.1	U	1.1	0.37	mg/Kg	☼	07/25/18 01:29	07/25/18 20:33	20
Calcium	21900		111	33.0	mg/Kg	☼	07/25/18 01:29	07/25/18 20:33	20
Chromium	15.7		2.2	0.67	mg/Kg	☼	07/25/18 01:29	07/25/18 20:33	20
Cobalt	5.9		2.2	0.67	mg/Kg	☼	07/25/18 01:29	07/25/18 20:33	20
Copper	20.2		2.2	0.64	mg/Kg	☼	07/25/18 01:29	07/25/18 20:33	20
Iron	15000		66.6	23.3	mg/Kg	☼	07/25/18 01:29	07/25/18 20:33	20
Lead	95.3		0.67	0.21	mg/Kg	☼	07/25/18 01:29	07/25/18 20:33	20
Magnesium	16300		111	30.9	mg/Kg	☼	07/25/18 01:29	07/25/18 20:33	20
Manganese	206		4.4	1.4	mg/Kg	☼	07/25/18 01:29	07/25/18 20:33	20
Nickel	12.1		2.2	0.72	mg/Kg	☼	07/25/18 01:29	07/25/18 22:23	20
Potassium	1840		111	40.0	mg/Kg	☼	07/25/18 01:29	07/25/18 20:33	20
Selenium	5.6	U	5.6	0.32	mg/Kg	☼	07/25/18 01:29	07/25/18 20:33	20
Silver	1.1	U	1.1	0.69	mg/Kg	☼	07/25/18 01:29	07/25/18 20:33	20
Sodium	337		111	34.8	mg/Kg	☼	07/25/18 01:29	07/25/18 20:33	20
Thallium	0.16	J	0.44	0.14	mg/Kg	☼	07/25/18 01:29	07/25/18 20:33	20
Vanadium	22.3		2.2	0.63	mg/Kg	☼	07/25/18 01:29	07/25/18 20:33	20
Zinc	351		8.9	4.3	mg/Kg	☼	07/25/18 01:29	07/25/18 20:33	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.020	0.012	mg/Kg	☼	07/25/18 05:03	07/25/18 09:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.32		0.24	0.064	mg/Kg	☼	07/25/18 08:20	07/25/18 12:58	1

ANALYTICAL REPORT

Job Number: 460-161116-1

Job Description: Taconic Inwood

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, NY 11749
Attention: Ms. Jessica Taylor

Melissa Haas

Approved for release.
Melissa Haas
Project Manager I
11/16/2018 12:59 PM

Melissa Haas, Project Manager I
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11/16/2018
Revision: 1

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TestAmerica Laboratories, Inc.

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Job Number: 460-161116-1

Job Description: Taconic Inwood

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

A handwritten signature in dark ink that reads "Melissa Haas". The signature is written in a cursive, flowing style. Below the signature is a solid horizontal line.

Approved for release.
Melissa Haas
Project Manager I
11/16/2018 12:59 PM

Melissa Haas

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CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: Taconic Inwood

Report Number: 460-161116-1

Revised Report #1

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

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

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

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

REVISED REPORT #1

The following report required a revision: 460-161116-1. Details are as follows: The client requested the addition of NY Part 375 compounds for VOCs, SVOCs, and Pesticides.

RECEIPT

The samples were received on 7/24/2018 7:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

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

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MR-12_1.25_3 (460-161116-1), MR-4_1_1.5 (460-161116-2), MR-4_9.5_11 (460-161116-3) and MR-12_3_4 (460-161116-4) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260C. The samples were prepared on 07/25/2018 and analyzed on 07/27/2018.

Methylene Chloride was detected in method blank MB 460-540115/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

The laboratory control sample (LCS) for analytical batch 460-540115 recovered outside control limits for the following analytes: 4-Methyl-2-pentanone (MIBK) and 2-Hexanone. These analytes were biased high in the LCS and were not detected in the associated samples, except for 2-Hexanone; the data have been flagged and reported.

Refer to the QC report for details.

No difficulties were encountered during the volatiles analysis.

All quality control parameters were within the acceptance limits.

PESTICIDES

Samples MR-12_1.25_3 (460-161116-1), MR-4_1_1.5 (460-161116-2) and MR-4_9.5_11 (460-161116-3) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 07/25/2018 and analyzed on 07/26/2018.

No difficulties were encountered during the Pesticides analysis.

All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS

Samples MR-12_1.25_3 (460-161116-1), MR-4_1_1.5 (460-161116-2) and MR-4_9.5_11 (460-161116-3) were analyzed for

polychlorinated biphenyls in accordance with EPA SW-846 Method 8082A. The samples were prepared on 07/25/2018 and analyzed on 07/26/2018.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

CHLORINATED HERBICIDES

Samples MR-12_1.25_3 (460-161116-1), MR-4_1_1.5 (460-161116-2) and MR-4_9.5_11 (460-161116-3) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 07/28/2018 and analyzed on 07/29/2018.

The 2,4-Dichlorophenylacetic acid surrogate recovery for the following MS was outside acceptance limits (high biased) on the confirmation column due to matrix interference: (460-160838-B-2-S MS). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

Refer to the QC report for details.

No other difficulties were encountered during the herbicides analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MR-12_1.25_3 (460-161116-1), MR-4_1_1.5 (460-161116-2), MR-4_9.5_11 (460-161116-3) and MR-12_3_4 (460-161116-4) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 07/25/2018 and analyzed on 07/26/2018.

The continuing calibration verification (CCV) analyzed in 460-539688 was outside the method criteria for the following analyte(s): 4-Methylphenol, Bis(2-chloroethyl)ether, Phenol, Isophorone, Butyl benzyl phthalate, N-Nitrosodi-n-propylamine, 2-Methylphenol, Bis(2-chloroethoxy)methane and Di-n-octyl phthalate. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) associated with batch 460-539688 recovered above the upper control limit for Benzaldehyde. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The laboratory control sample (LCS) for preparation batch 460-539528 and analytical batch 460-539688 recovered outside control limits for the following analyte: Benzaldehyde. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Surrogates recoveries for the following laboratory control sample (LCS) associated with batch 460-539528 were outside the upper control limits. Sample has been reported.

The laboratory control sample (LCS) for preparation batch 460-539528 and analytical batch 460-539688 recovered outside control limits for the following analyte: Phenol. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Several analytes failed the recovery criteria low for the MS of sample 460-161119-1 in batch 460-539688.

Several analytes failed the recovery criteria low for the MSD of sample 460-161119-1 in batch 460-539688.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

METALS

Samples MR-12_1.25_3 (460-161116-1), MR-4_1_1.5 (460-161116-2) and MR-4_9.5_11 (460-161116-3) were analyzed for Metals in accordance with EPA SW-846 Method 6020A. The samples were prepared on 07/26/2018 and analyzed on 07/26/2018 and 07/27/2018.

Several analytes failed the recovery criteria low for the MS of sample 460-161057-1 in batch 460-539961. Aluminum, Magnesium and Nickel failed the recovery criteria high.

Antimony, Cobalt, Copper and Nickel failed the recovery criteria low for the MS of sample 460-161134-3 in batch 460-540297. Several analytes failed the recovery criteria high.

Chromium and Nickel exceeded the RPD limit for the duplicate of sample 460-161057-1. Copper exceeded the RPD limit for the duplicate of sample 460-161134-3.

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

spiking amount.

Refer to the QC report for details.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples MR-12_1.25_3 (460-161116-1), MR-4_1_1.5 (460-161116-2) and MR-4_9.5_11 (460-161116-3) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 07/26/2018.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

TOTAL CYANIDE

Samples MR-12_1.25_3 (460-161116-1), MR-4_1_1.5 (460-161116-2) and MR-4_9.5_11 (460-161116-3) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The samples were prepared on 07/26/2018 and analyzed on 07/27/2018.

Cyanide, Total failed the recovery criteria high for the MS of sample 460-161097-1 in batch 460-540260.

Cyanide, Total failed the recovery criteria high for the MSD of sample 460-161097-1 in batch 460-540260.

Refer to the QC report for details.

No other difficulties were encountered during the cyanide analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples MR-12_1.25_3 (460-161116-1), MR-4_1_1.5 (460-161116-2), MR-4_9.5_11 (460-161116-3) and MR-12_3_4 (460-161116-4) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 07/26/2018.

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

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-161116-1	MR-12_1.25_3	Solid	07/24/18 11:45	07/24/18 19:00
460-161116-2	MR-4_1_1.5	Solid	07/24/18 13:00	07/24/18 19:00
460-161116-3	MR-4_9.5_11	Solid	07/24/18 13:10	07/24/18 19:00
460-161116-4	MR-12_3_4	Solid	07/24/18 13:40	07/24/18 19:00

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Client Sample ID: MR-12_1.25_3

Lab Sample ID: 460-161116-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.013		0.0011	0.00010	mg/Kg	1	☼		8260C	Total/NA
1,3,5-Trimethylbenzene	0.00050	J	0.0011	0.00012	mg/Kg	1	☼		8260C	Total/NA
2-Butanone (MEK)	0.0040	J	0.0053	0.0012	mg/Kg	1	☼		8260C	Total/NA
Acetone	0.022		0.0053	0.0040	mg/Kg	1	☼		8260C	Total/NA
Benzene	0.00089	J	0.0011	0.00027	mg/Kg	1	☼		8260C	Total/NA
Ethylbenzene	0.015		0.0011	0.00021	mg/Kg	1	☼		8260C	Total/NA
Isopropylbenzene	0.0053		0.0011	0.00013	mg/Kg	1	☼		8260C	Total/NA
m-Xylene & p-Xylene	0.0057		0.0011	0.00018	mg/Kg	1	☼		8260C	Total/NA
n-Butylbenzene	0.00023	J	0.0011	0.00015	mg/Kg	1	☼		8260C	Total/NA
N-Propylbenzene	0.0014		0.0011	0.00019	mg/Kg	1	☼		8260C	Total/NA
o-Xylene	0.0034		0.0011	0.00010	mg/Kg	1	☼		8260C	Total/NA
sec-Butylbenzene	0.00011	J	0.0011	0.000093	mg/Kg	1	☼		8260C	Total/NA
Styrene	0.00019	J	0.0011	0.00013	mg/Kg	1	☼		8260C	Total/NA
Toluene	0.00090	J	0.0011	0.00066	mg/Kg	1	☼		8260C	Total/NA
Xylenes, Total	0.0090		0.0021	0.00027	mg/Kg	1	☼		8260C	Total/NA
1,1'-Biphenyl	0.039	J	0.39	0.0052	mg/Kg	1	☼		8270D	Total/NA
2,4-Dimethylphenol	0.024	J	0.39	0.017	mg/Kg	1	☼		8270D	Total/NA
2-Methylnaphthalene	0.27	J	0.39	0.0049	mg/Kg	1	☼		8270D	Total/NA
Acenaphthene	0.29	J	0.39	0.029	mg/Kg	1	☼		8270D	Total/NA
Anthracene	0.13	J	0.39	0.0044	mg/Kg	1	☼		8270D	Total/NA
Benzo[a]anthracene	0.17		0.039	0.014	mg/Kg	1	☼		8270D	Total/NA
Benzo[a]pyrene	0.096		0.039	0.011	mg/Kg	1	☼		8270D	Total/NA
Benzo[b]fluoranthene	0.14		0.039	0.010	mg/Kg	1	☼		8270D	Total/NA
Benzo[g,h,i]perylene	0.039	J	0.39	0.012	mg/Kg	1	☼		8270D	Total/NA
Benzo[k]fluoranthene	0.058		0.039	0.0077	mg/Kg	1	☼		8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.32	J	0.39	0.021	mg/Kg	1	☼		8270D	Total/NA
Butyl benzyl phthalate	0.83		0.39	0.019	mg/Kg	1	☼		8270D	Total/NA
Carbazole	0.21	J	0.39	0.0046	mg/Kg	1	☼		8270D	Total/NA
Chrysene	0.18	J	0.39	0.0067	mg/Kg	1	☼		8270D	Total/NA
Dibenzofuran	0.25	J	0.39	0.0056	mg/Kg	1	☼		8270D	Total/NA
Fluoranthene	0.73		0.39	0.0051	mg/Kg	1	☼		8270D	Total/NA
Fluorene	0.36	J	0.39	0.0054	mg/Kg	1	☼		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.043		0.039	0.015	mg/Kg	1	☼		8270D	Total/NA
Naphthalene	1.9		0.39	0.0068	mg/Kg	1	☼		8270D	Total/NA
Phenanthrene	1.2		0.39	0.0069	mg/Kg	1	☼		8270D	Total/NA
Pyrene	0.63		0.39	0.0098	mg/Kg	1	☼		8270D	Total/NA
Aluminum	10400		17.3	5.9	mg/Kg	20	☼		6020B	Total/NA
Arsenic	2.6		0.87	0.28	mg/Kg	20	☼		6020B	Total/NA
Barium	65.4		1.7	0.58	mg/Kg	20	☼		6020B	Total/NA
Beryllium	0.34	J	0.35	0.14	mg/Kg	20	☼		6020B	Total/NA
Calcium	59100		86.6	25.7	mg/Kg	20	☼		6020B	Total/NA
Chromium	23.6		1.7	0.52	mg/Kg	20	☼		6020B	Total/NA
Cobalt	11.3		1.7	0.52	mg/Kg	20	☼		6020B	Total/NA
Copper	31.4		1.7	0.50	mg/Kg	20	☼		6020B	Total/NA
Iron	18700		52.0	18.2	mg/Kg	20	☼		6020B	Total/NA
Lead	23.1		0.52	0.16	mg/Kg	20	☼		6020B	Total/NA
Magnesium	29900		86.6	24.1	mg/Kg	20	☼		6020B	Total/NA
Manganese	455		3.5	1.1	mg/Kg	20	☼		6020B	Total/NA
Nickel	18.7		1.7	0.56	mg/Kg	20	☼		6020B	Total/NA
Potassium	2580		86.6	31.2	mg/Kg	20	☼		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Client Sample ID: MR-12_1.25_3 (Continued)

Lab Sample ID: 460-161116-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	364		86.6	27.1	mg/Kg	20	☼	6020B	Total/NA
Thallium	0.13	J	0.35	0.11	mg/Kg	20	☼	6020B	Total/NA
Vanadium	24.5		1.7	0.49	mg/Kg	20	☼	6020B	Total/NA
Zinc	61.6		6.9	3.4	mg/Kg	20	☼	6020B	Total/NA
Mercury	0.024		0.020	0.012	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: MR-4_1_1.5

Lab Sample ID: 460-161116-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0067		0.0056	0.0043	mg/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.00044	J B	0.0011	0.00018	mg/Kg	1	☼	8260C	Total/NA
2-Methylnaphthalene	0.011	J	0.36	0.0045	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.014	J	0.36	0.0037	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.057	J	0.36	0.0041	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.25		0.036	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.25		0.036	0.0097	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.34		0.036	0.0094	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.19	J	0.36	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.11		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.15	J	0.36	0.019	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.027	J	0.36	0.0042	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.26	J	0.36	0.0061	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.041		0.036	0.016	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.45		0.36	0.0047	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.017	J	0.36	0.0049	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.19		0.036	0.014	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.014	J	0.36	0.0063	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.23	J	0.36	0.0064	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.47		0.36	0.0090	mg/Kg	1	☼	8270D	Total/NA
Aluminum	7150		20.3	7.0	mg/Kg	20	☼	6020B	Total/NA
Antimony	0.81	J	1.0	0.30	mg/Kg	20	☼	6020B	Total/NA
Arsenic	5.3		1.0	0.33	mg/Kg	20	☼	6020B	Total/NA
Barium	111		2.0	0.67	mg/Kg	20	☼	6020B	Total/NA
Beryllium	0.27	J	0.41	0.16	mg/Kg	20	☼	6020B	Total/NA
Cadmium	1.0		1.0	0.34	mg/Kg	20	☼	6020B	Total/NA
Calcium	70600		102	30.2	mg/Kg	20	☼	6020B	Total/NA
Chromium	15.6		2.0	0.61	mg/Kg	20	☼	6020B	Total/NA
Cobalt	5.3		2.0	0.61	mg/Kg	20	☼	6020B	Total/NA
Copper	37.2		2.0	0.58	mg/Kg	20	☼	6020B	Total/NA
Iron	12100		60.9	21.3	mg/Kg	20	☼	6020B	Total/NA
Lead	141		0.61	0.19	mg/Kg	20	☼	6020B	Total/NA
Magnesium	39600		102	28.2	mg/Kg	20	☼	6020B	Total/NA
Manganese	237		4.1	1.2	mg/Kg	20	☼	6020B	Total/NA
Nickel	16.5		2.0	0.66	mg/Kg	20	☼	6020B	Total/NA
Potassium	2380		102	36.6	mg/Kg	20	☼	6020B	Total/NA
Sodium	427		102	31.8	mg/Kg	20	☼	6020B	Total/NA
Thallium	0.15	J	0.41	0.13	mg/Kg	20	☼	6020B	Total/NA
Vanadium	29.2		2.0	0.58	mg/Kg	20	☼	6020B	Total/NA
Zinc	274		8.1	4.0	mg/Kg	20	☼	6020B	Total/NA
Mercury	0.12		0.018	0.011	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Client Sample ID: MR-4_1_1.5 (Continued)

Lab Sample ID: 460-161116-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.14	J	0.26	0.069	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: MR-4_9.5_11

Lab Sample ID: 460-161116-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0040	J	0.0064	0.0014	mg/Kg	1	☼	8260C	Total/NA
2-Hexanone	0.0019	J *	0.0064	0.0010	mg/Kg	1	☼	8260C	Total/NA
Acetone	1.6		0.0064	0.0049	mg/Kg	1	☼	8260C	Total/NA
Cyclohexane	0.0044		0.0013	0.00028	mg/Kg	1	☼	8260C	Total/NA
Methylcyclohexane	0.00023	J	0.0013	0.00020	mg/Kg	1	☼	8260C	Total/NA
Toluene	0.0030		0.0013	0.00080	mg/Kg	1	☼	8260C	Total/NA
Anthracene	0.047	J	0.38	0.0043	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.14		0.038	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.13		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.14		0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.075	J	0.38	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.069		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.016	J	0.38	0.0045	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.12	J	0.38	0.0065	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.020	J	0.038	0.017	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.24	J	0.38	0.0050	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.013	J	0.38	0.0052	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.079		0.038	0.015	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.014	J	0.38	0.0066	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.16	J	0.38	0.0067	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.26	J	0.38	0.0095	mg/Kg	1	☼	8270D	Total/NA
Aluminum	8560		21.2	7.3	mg/Kg	20	☼	6020B	Total/NA
Arsenic	2.3		1.1	0.34	mg/Kg	20	☼	6020B	Total/NA
Barium	48.6		2.1	0.70	mg/Kg	20	☼	6020B	Total/NA
Beryllium	0.33	J	0.42	0.17	mg/Kg	20	☼	6020B	Total/NA
Calcium	30300		106	31.5	mg/Kg	20	☼	6020B	Total/NA
Chromium	15.3		2.1	0.64	mg/Kg	20	☼	6020B	Total/NA
Cobalt	5.8		2.1	0.64	mg/Kg	20	☼	6020B	Total/NA
Copper	18.3		2.1	0.61	mg/Kg	20	☼	6020B	Total/NA
Iron	14200		63.7	22.3	mg/Kg	20	☼	6020B	Total/NA
Lead	33.6		0.64	0.20	mg/Kg	20	☼	6020B	Total/NA
Magnesium	18700		106	29.5	mg/Kg	20	☼	6020B	Total/NA
Manganese	351		4.2	1.3	mg/Kg	20	☼	6020B	Total/NA
Nickel	13.3		2.1	0.69	mg/Kg	20	☼	6020B	Total/NA
Potassium	1620		106	38.2	mg/Kg	20	☼	6020B	Total/NA
Sodium	436		106	33.2	mg/Kg	20	☼	6020B	Total/NA
Vanadium	17.6		2.1	0.60	mg/Kg	20	☼	6020B	Total/NA
Zinc	178		8.5	4.1	mg/Kg	20	☼	6020B	Total/NA
Cyanide, Total	0.082	J	0.25	0.065	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: MR-12_3_4

Lab Sample ID: 460-161116-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.011		0.0010	0.000096	mg/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	0.0037		0.0010	0.00012	mg/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Client Sample ID: MR-12_3_4 (Continued)

Lab Sample ID: 460-161116-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0032	J	0.0051	0.0011	mg/Kg	1	✖		8260C	Total/NA
Acetone	0.016		0.0051	0.0039	mg/Kg	1	✖		8260C	Total/NA
Benzene	0.0011		0.0010	0.00026	mg/Kg	1	✖		8260C	Total/NA
Carbon disulfide	0.00075	J	0.0010	0.00027	mg/Kg	1	✖		8260C	Total/NA
Ethylbenzene	0.014		0.0010	0.00020	mg/Kg	1	✖		8260C	Total/NA
Isopropylbenzene	0.0042		0.0010	0.00013	mg/Kg	1	✖		8260C	Total/NA
Methylene Chloride	0.0020	B	0.0010	0.00017	mg/Kg	1	✖		8260C	Total/NA
m-Xylene & p-Xylene	0.0082		0.0010	0.00018	mg/Kg	1	✖		8260C	Total/NA
n-Butylbenzene	0.00015	J	0.0010	0.00015	mg/Kg	1	✖		8260C	Total/NA
N-Propylbenzene	0.00097	J	0.0010	0.00018	mg/Kg	1	✖		8260C	Total/NA
o-Xylene	0.0038		0.0010	0.000097	mg/Kg	1	✖		8260C	Total/NA
Styrene	0.00030	J	0.0010	0.00013	mg/Kg	1	✖		8260C	Total/NA
Toluene	0.0022		0.0010	0.00064	mg/Kg	1	✖		8260C	Total/NA
Xylenes, Total	0.012		0.0020	0.00026	mg/Kg	1	✖		8260C	Total/NA
1,1'-Biphenyl	0.039	J	0.40	0.0053	mg/Kg	1	✖		8270D	Total/NA
2-Methylnaphthalene	0.22	J	0.40	0.0049	mg/Kg	1	✖		8270D	Total/NA
Acenaphthene	0.30	J	0.40	0.029	mg/Kg	1	✖		8270D	Total/NA
Anthracene	0.24	J	0.40	0.0044	mg/Kg	1	✖		8270D	Total/NA
Benzo[a]anthracene	0.19		0.040	0.014	mg/Kg	1	✖		8270D	Total/NA
Benzo[a]pyrene	0.10		0.040	0.011	mg/Kg	1	✖		8270D	Total/NA
Benzo[b]fluoranthene	0.15		0.040	0.010	mg/Kg	1	✖		8270D	Total/NA
Benzo[g,h,i]perylene	0.046	J	0.40	0.012	mg/Kg	1	✖		8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.56		0.40	0.021	mg/Kg	1	✖		8270D	Total/NA
Butyl benzyl phthalate	1.3		0.40	0.019	mg/Kg	1	✖		8270D	Total/NA
Carbazole	0.34	J	0.40	0.0046	mg/Kg	1	✖		8270D	Total/NA
Chrysene	0.20	J	0.40	0.0067	mg/Kg	1	✖		8270D	Total/NA
Dibenzofuran	0.21	J	0.40	0.0056	mg/Kg	1	✖		8270D	Total/NA
Fluoranthene	0.97		0.40	0.0051	mg/Kg	1	✖		8270D	Total/NA
Fluorene	0.40		0.40	0.0054	mg/Kg	1	✖		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.054		0.040	0.015	mg/Kg	1	✖		8270D	Total/NA
Naphthalene	1.8		0.40	0.0069	mg/Kg	1	✖		8270D	Total/NA
Phenanthrene	1.4		0.40	0.0070	mg/Kg	1	✖		8270D	Total/NA
Pyrene	0.86		0.40	0.0099	mg/Kg	1	✖		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Method Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
8081B	Organochlorine Pesticides (GC)	SW846	TAL EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL EDI
8151A	Herbicides (GC)	SW846	TAL EDI
6020B	Metals (ICP/MS)	SW846	TAL EDI
7471B	Mercury (CVAA)	SW846	TAL EDI
9012B	Cyanide, Total and/or Amenable	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
3050B	Preparation, Metals	SW846	TAL EDI
3546	Microwave Extraction	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI
7471B	Preparation, Mercury	SW846	TAL EDI
8151A	Extraction (Herbicides)	SW846	TAL EDI
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Client Sample ID: MR-12_1.25_3

Date Collected: 07/24/18 11:45

Date Received: 07/24/18 19:00

Lab Sample ID: 460-161116-1

Matrix: Solid

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0011	U	0.0011	0.00025	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
1,1,2,2-Tetrachloroethane	0.0011	U	0.0011	0.00023	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0011	U	0.0011	0.00032	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
1,1,2-Trichloroethane	0.0011	U	0.0011	0.00019	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
1,1-Dichloroethane	0.0011	U	0.0011	0.00022	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
1,1-Dichloroethene	0.0011	U	0.0011	0.00024	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
1,2,3-Trichlorobenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
1,2,4-Trichlorobenzene	0.0011	U	0.0011	0.000098	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
1,2,4-Trimethylbenzene	0.013		0.0011	0.00010	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
1,2-Dibromo-3-Chloropropane	0.0011	U	0.0011	0.00049	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
1,2-Dichlorobenzene	0.0011	U	0.0011	0.00015	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
1,2-Dichloroethane	0.0011	U	0.0011	0.00031	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
1,2-Dichloropropane	0.0011	U	0.0011	0.00045	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
1,3,5-Trimethylbenzene	0.00050	J	0.0011	0.00012	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
1,3-Dichlorobenzene	0.0011	U	0.0011	0.00017	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
1,4-Dichlorobenzene	0.0011	U	0.0011	0.00011	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
1,4-Dioxane	0.021	U	0.021	0.0097	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
2-Butanone (MEK)	0.0040	J	0.0053	0.0012	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
2-Hexanone	0.0053	U *	0.0053	0.00083	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
4-Methyl-2-pentanone (MIBK)	0.0053	U *	0.0053	0.00070	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Acetone	0.022		0.0053	0.0040	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Benzene	0.00089	J	0.0011	0.00027	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Bromoform	0.0011	U	0.0011	0.00045	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Bromomethane	0.0011	U	0.0011	0.00050	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Carbon disulfide	0.0011	U	0.0011	0.00028	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Carbon tetrachloride	0.0011	U	0.0011	0.00019	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Chlorobenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Chlorobromomethane	0.0011	U	0.0011	0.00030	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Chlorodibromomethane	0.0011	U	0.0011	0.00021	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Chloroethane	0.0011	U	0.0011	0.00055	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Chloroform	0.0011	U	0.0011	0.00034	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Chloromethane	0.0011	U	0.0011	0.00046	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
cis-1,2-Dichloroethene	0.0011	U	0.0011	0.00016	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
cis-1,3-Dichloropropene	0.0011	U	0.0011	0.00029	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Cyclohexane	0.0011	U	0.0011	0.00023	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Dichlorobromomethane	0.0011	U	0.0011	0.00027	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Dichlorodifluoromethane	0.0011	U	0.0011	0.00036	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Ethylbenzene	0.015		0.0011	0.00021	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Ethylene Dibromide	0.0011	U	0.0011	0.00019	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Isopropylbenzene	0.0053		0.0011	0.00013	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Methyl acetate	0.0053	U	0.0053	0.0046	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Methyl tert-butyl ether	0.0011	U	0.0011	0.00013	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Methylcyclohexane	0.0011	U	0.0011	0.00017	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Methylene Chloride	0.0011	U	0.0011	0.00017	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
m-Xylene & p-Xylene	0.0057		0.0011	0.00018	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
n-Butylbenzene	0.00023	J	0.0011	0.00015	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
N-Propylbenzene	0.0014		0.0011	0.00019	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
o-Xylene	0.0034		0.0011	0.00010	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
sec-Butylbenzene	0.00011	J	0.0011	0.000093	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Client Sample ID: MR-12_1.25_3

Lab Sample ID: 460-161116-1

Date Collected: 07/24/18 11:45

Matrix: Solid

Date Received: 07/24/18 19:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.00019	J	0.0011	0.00013	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
tert-Butylbenzene	0.0011	U	0.0011	0.00013	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Tetrachloroethene	0.0011	U	0.0011	0.00015	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Toluene	0.00090	J	0.0011	0.00066	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
trans-1,2-Dichloroethene	0.0011	U	0.0011	0.00026	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
trans-1,3-Dichloropropene	0.0011	U	0.0011	0.00028	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Trichloroethene	0.0011	U	0.0011	0.00015	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Trichlorofluoromethane	0.0011	U	0.0011	0.00043	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Vinyl chloride	0.0011	U	0.0011	0.00058	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1
Xylenes, Total	0.0090		0.0021	0.00027	mg/Kg	☼	07/25/18 07:28	07/27/18 09:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		78 - 135	07/25/18 07:28	07/27/18 09:10	1
4-Bromofluorobenzene	104		67 - 126	07/25/18 07:28	07/27/18 09:10	1
Dibromofluoromethane (Surr)	103		61 - 149	07/25/18 07:28	07/27/18 09:10	1
Toluene-d8 (Surr)	103		73 - 121	07/25/18 07:28	07/27/18 09:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.039	J	0.39	0.0052	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
1,2,4,5-Tetrachlorobenzene	0.39	U	0.39	0.0052	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
2,2'-oxybis[1-chloropropane]	0.39	U	0.39	0.0072	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
2,3,4,6-Tetrachlorophenol	0.39	U	0.39	0.027	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
2,4,5-Trichlorophenol	0.39	U	0.39	0.013	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
2,4,6-Trichlorophenol	0.16	U	0.16	0.020	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
2,4-Dichlorophenol	0.16	U	0.16	0.0083	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
2,4-Dimethylphenol	0.024	J	0.39	0.017	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
2,4-Dinitrophenol	0.32	U	0.32	0.19	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
2,4-Dinitrotoluene	0.080	U	0.080	0.020	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
2,6-Dinitrotoluene	0.080	U	0.080	0.013	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
2-Chloronaphthalene	0.39	U	0.39	0.018	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
2-Chlorophenol	0.39	U	0.39	0.0055	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
2-Methylnaphthalene	0.27	J	0.39	0.0049	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
2-Methylphenol	0.39	U	0.39	0.0064	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
2-Nitroaniline	0.39	U	0.39	0.015	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
2-Nitrophenol	0.39	U	0.39	0.013	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
3 & 4 Methylphenol	0.39	U	0.39	0.0067	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
3,3'-Dichlorobenzidine	0.16	U	0.16	0.060	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
3-Nitroaniline	0.39	U	0.39	0.021	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
4,6-Dinitro-2-methylphenol	0.32	U	0.32	0.064	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
4-Bromophenyl phenyl ether	0.39	U	0.39	0.0051	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
4-Chloro-3-methylphenol	0.39	U	0.39	0.0066	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
4-Chloroaniline	0.39	U	0.39	0.028	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
4-Chlorophenyl phenyl ether	0.39	U	0.39	0.0062	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
4-Methylphenol	0.39	U	0.39	0.0067	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
4-Nitroaniline	0.39	U	0.39	0.015	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
4-Nitrophenol	0.80	U	0.80	0.064	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Acenaphthene	0.29	J	0.39	0.029	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Acenaphthylene	0.39	U	0.39	0.0041	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Acetophenone	0.39	U	0.39	0.0064	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Client Sample ID: MR-12_1.25_3

Lab Sample ID: 460-161116-1

Date Collected: 07/24/18 11:45

Matrix: Solid

Date Received: 07/24/18 19:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.13	J	0.39	0.0044	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Atrazine	0.16	U	0.16	0.010	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Benzaldehyde	0.39	U *	0.39	0.017	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Benzo[a]anthracene	0.17		0.039	0.014	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Benzo[a]pyrene	0.096		0.039	0.011	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Benzo[b]fluoranthene	0.14		0.039	0.010	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Benzo[g,h,i]perylene	0.039	J	0.39	0.012	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Benzo[k]fluoranthene	0.058		0.039	0.0077	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Bis(2-chloroethoxy)methane	0.39	U	0.39	0.014	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Bis(2-chloroethyl)ether	0.039	U	0.039	0.0048	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Bis(2-ethylhexyl) phthalate	0.32	J	0.39	0.021	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Butyl benzyl phthalate	0.83		0.39	0.019	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Caprolactam	0.39	U	0.39	0.024	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Carbazole	0.21	J	0.39	0.0046	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Chrysene	0.18	J	0.39	0.0067	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Dibenz(a,h)anthracene	0.039	U	0.039	0.017	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Dibenzofuran	0.25	J	0.39	0.0056	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Diethyl phthalate	0.39	U	0.39	0.0057	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Dimethyl phthalate	0.39	U	0.39	0.0048	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Di-n-butyl phthalate	0.39	U	0.39	0.070	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Di-n-octyl phthalate	0.39	U	0.39	0.021	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Fluoranthene	0.73		0.39	0.0051	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Fluorene	0.36	J	0.39	0.0054	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Hexachlorobenzene	0.039	U	0.039	0.0058	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Hexachlorobutadiene	0.080	U	0.080	0.0084	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Hexachlorocyclopentadiene	0.39	U	0.39	0.035	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Hexachloroethane	0.039	U	0.039	0.0061	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Indeno[1,2,3-cd]pyrene	0.043		0.039	0.015	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Isophorone	0.16	U	0.16	0.010	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Naphthalene	1.9		0.39	0.0068	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Nitrobenzene	0.039	U	0.039	0.0095	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
N-Nitrosodi-n-propylamine	0.039	U	0.039	0.0063	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
N-Nitrosodiphenylamine	0.39	U	0.39	0.0076	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Pentachlorophenol	0.32	U	0.32	0.081	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Phenanthrene	1.2		0.39	0.0069	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Phenol	0.39	U *	0.39	0.0059	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1
Pyrene	0.63		0.39	0.0098	mg/Kg	☼	07/25/18 10:51	07/26/18 04:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	40		10 - 103	07/25/18 10:51	07/26/18 04:38	1
2-Fluorobiphenyl	49		38 - 95	07/25/18 10:51	07/26/18 04:38	1
2-Fluorophenol (Surr)	56		25 - 92	07/25/18 10:51	07/26/18 04:38	1
Nitrobenzene-d5 (Surr)	52		37 - 94	07/25/18 10:51	07/26/18 04:38	1
Phenol-d5 (Surr)	56		32 - 91	07/25/18 10:51	07/26/18 04:38	1
Terphenyl-d14 (Surr)	53		24 - 109	07/25/18 10:51	07/26/18 04:38	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0080	U	0.0080	0.0014	mg/Kg	☼	07/25/18 20:20	07/26/18 11:01	1
4,4'-DDE	0.0080	U	0.0080	0.00094	mg/Kg	☼	07/25/18 20:20	07/26/18 11:01	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Client Sample ID: MR-12_1.25_3

Lab Sample ID: 460-161116-1

Date Collected: 07/24/18 11:45

Matrix: Solid

Date Received: 07/24/18 19:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	0.0080	U	0.0080	0.0015	mg/Kg	☼	07/25/18 20:20	07/26/18 11:01	1
Aldrin	0.0080	U	0.0080	0.0012	mg/Kg	☼	07/25/18 20:20	07/26/18 11:01	1
alpha-BHC	0.0024	U	0.0024	0.00081	mg/Kg	☼	07/25/18 20:20	07/26/18 11:01	1
beta-BHC	0.0024	U	0.0024	0.00090	mg/Kg	☼	07/25/18 20:20	07/26/18 11:01	1
Chlordane (technical)	0.080	U	0.080	0.019	mg/Kg	☼	07/25/18 20:20	07/26/18 11:01	1
cis-Chlordane	0.0080	U	0.0080	0.0013	mg/Kg	☼	07/25/18 20:20	07/26/18 11:01	1
delta-BHC	0.0024	U	0.0024	0.00049	mg/Kg	☼	07/25/18 20:20	07/26/18 11:01	1
Dieldrin	0.0024	U	0.0024	0.0010	mg/Kg	☼	07/25/18 20:20	07/26/18 11:01	1
Endosulfan I	0.0080	U	0.0080	0.0012	mg/Kg	☼	07/25/18 20:20	07/26/18 11:01	1
Endosulfan II	0.0080	U	0.0080	0.0021	mg/Kg	☼	07/25/18 20:20	07/26/18 11:01	1
Endosulfan sulfate	0.0080	U	0.0080	0.0010	mg/Kg	☼	07/25/18 20:20	07/26/18 11:01	1
Endrin	0.0080	U	0.0080	0.0011	mg/Kg	☼	07/25/18 20:20	07/26/18 11:01	1
Endrin aldehyde	0.0080	U	0.0080	0.0019	mg/Kg	☼	07/25/18 20:20	07/26/18 11:01	1
Endrin ketone	0.0080	U	0.0080	0.0016	mg/Kg	☼	07/25/18 20:20	07/26/18 11:01	1
gamma-BHC (Lindane)	0.0024	U	0.0024	0.00074	mg/Kg	☼	07/25/18 20:20	07/26/18 11:01	1
Heptachlor	0.0080	U	0.0080	0.00094	mg/Kg	☼	07/25/18 20:20	07/26/18 11:01	1
Heptachlor epoxide	0.0080	U	0.0080	0.0012	mg/Kg	☼	07/25/18 20:20	07/26/18 11:01	1
Methoxychlor	0.0080	U	0.0080	0.0018	mg/Kg	☼	07/25/18 20:20	07/26/18 11:01	1
Toxaphene	0.080	U	0.080	0.029	mg/Kg	☼	07/25/18 20:20	07/26/18 11:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	87		69 - 150	07/25/18 20:20	07/26/18 11:01	1
DCB Decachlorobiphenyl	90		69 - 150	07/25/18 20:20	07/26/18 11:01	1
Tetrachloro-m-xylene	85		74 - 150	07/25/18 20:20	07/26/18 11:01	1
Tetrachloro-m-xylene	86		74 - 150	07/25/18 20:20	07/26/18 11:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.080	U	0.080	0.011	mg/Kg	☼	07/25/18 20:26	07/26/18 14:31	1
Aroclor 1221	0.080	U	0.080	0.011	mg/Kg	☼	07/25/18 20:26	07/26/18 14:31	1
Aroclor 1232	0.080	U	0.080	0.011	mg/Kg	☼	07/25/18 20:26	07/26/18 14:31	1
Aroclor 1242	0.080	U	0.080	0.011	mg/Kg	☼	07/25/18 20:26	07/26/18 14:31	1
Aroclor 1248	0.080	U	0.080	0.011	mg/Kg	☼	07/25/18 20:26	07/26/18 14:31	1
Aroclor 1254	0.080	U	0.080	0.011	mg/Kg	☼	07/25/18 20:26	07/26/18 14:31	1
Aroclor 1260	0.080	U	0.080	0.011	mg/Kg	☼	07/25/18 20:26	07/26/18 14:31	1
Aroclor-1262	0.080	U	0.080	0.011	mg/Kg	☼	07/25/18 20:26	07/26/18 14:31	1
Aroclor 1268	0.080	U	0.080	0.011	mg/Kg	☼	07/25/18 20:26	07/26/18 14:31	1
Polychlorinated biphenyls, Total	0.080	U	0.080	0.011	mg/Kg	☼	07/25/18 20:26	07/26/18 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	99		53 - 150	07/25/18 20:26	07/26/18 14:31	1
DCB Decachlorobiphenyl	110		53 - 150	07/25/18 20:26	07/26/18 14:31	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.040	U	0.040	0.0085	mg/Kg	☼	07/28/18 01:25	07/29/18 07:22	1
2,4-D	0.040	U	0.040	0.014	mg/Kg	☼	07/28/18 01:25	07/29/18 07:22	1
Silvex (2,4,5-TP)	0.040	U	0.040	0.0041	mg/Kg	☼	07/28/18 01:25	07/29/18 07:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	108		80 - 150	07/28/18 01:25	07/29/18 07:22	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Client Sample ID: MR-12_1.25_3

Date Collected: 07/24/18 11:45

Date Received: 07/24/18 19:00

Lab Sample ID: 460-161116-1

Matrix: Solid

Percent Solids: 83.6

Method: 8151A - Herbicides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	128		80 - 150	07/28/18 01:25	07/29/18 07:22	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10400		17.3	5.9	mg/Kg	☼	07/26/18 23:30	07/27/18 20:30	20
Antimony	0.87	U	0.87	0.25	mg/Kg	☼	07/26/18 23:30	07/27/18 20:30	20
Arsenic	2.6		0.87	0.28	mg/Kg	☼	07/26/18 23:30	07/27/18 20:30	20
Barium	65.4		1.7	0.58	mg/Kg	☼	07/26/18 23:30	07/27/18 20:30	20
Beryllium	0.34	J	0.35	0.14	mg/Kg	☼	07/26/18 23:30	07/27/18 20:30	20
Cadmium	0.87	U	0.87	0.29	mg/Kg	☼	07/26/18 23:30	07/27/18 20:30	20
Calcium	59100		86.6	25.7	mg/Kg	☼	07/26/18 23:30	07/27/18 20:30	20
Chromium	23.6		1.7	0.52	mg/Kg	☼	07/26/18 23:30	07/27/18 20:30	20
Cobalt	11.3		1.7	0.52	mg/Kg	☼	07/26/18 23:30	07/27/18 20:30	20
Copper	31.4		1.7	0.50	mg/Kg	☼	07/26/18 23:30	07/27/18 20:30	20
Iron	18700		52.0	18.2	mg/Kg	☼	07/26/18 23:30	07/27/18 20:30	20
Lead	23.1		0.52	0.16	mg/Kg	☼	07/26/18 23:30	07/27/18 20:30	20
Magnesium	29900		86.6	24.1	mg/Kg	☼	07/26/18 23:30	07/27/18 20:30	20
Manganese	455		3.5	1.1	mg/Kg	☼	07/26/18 23:30	07/27/18 20:30	20
Nickel	18.7		1.7	0.56	mg/Kg	☼	07/26/18 23:30	07/27/18 20:30	20
Potassium	2580		86.6	31.2	mg/Kg	☼	07/26/18 23:30	07/27/18 20:30	20
Selenium	4.3	U	4.3	0.25	mg/Kg	☼	07/26/18 23:30	07/27/18 20:30	20
Silver	0.87	U	0.87	0.54	mg/Kg	☼	07/26/18 23:30	07/27/18 20:30	20
Sodium	364		86.6	27.1	mg/Kg	☼	07/26/18 23:30	07/27/18 20:30	20
Thallium	0.13	J	0.35	0.11	mg/Kg	☼	07/26/18 23:30	07/27/18 20:30	20
Vanadium	24.5		1.7	0.49	mg/Kg	☼	07/26/18 23:30	07/27/18 20:30	20
Zinc	61.6		6.9	3.4	mg/Kg	☼	07/26/18 23:30	07/27/18 20:30	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.020	0.012	mg/Kg	☼	07/26/18 04:34	07/26/18 09:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.29	U	0.29	0.075	mg/Kg	☼	07/26/18 14:53	07/27/18 13:19	1

Client Sample ID: MR-4_1_1.5

Date Collected: 07/24/18 13:00

Date Received: 07/24/18 19:00

Lab Sample ID: 460-161116-2

Matrix: Solid

Percent Solids: 91.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0011	U	0.0011	0.00026	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
1,1,2,2-Tetrachloroethane	0.0011	U	0.0011	0.00024	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0011	U	0.0011	0.00034	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
1,1,2-Trichloroethane	0.0011	U	0.0011	0.00020	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
1,1-Dichloroethane	0.0011	U	0.0011	0.00023	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
1,1-Dichloroethene	0.0011	U	0.0011	0.00025	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
1,2,3-Trichlorobenzene	0.0011	U	0.0011	0.00020	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
1,2,4-Trichlorobenzene	0.0011	U	0.0011	0.00010	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
1,2,4-Trimethylbenzene	0.0011	U	0.0011	0.00011	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Client Sample ID: MR-4_1_1.5

Lab Sample ID: 460-161116-2

Date Collected: 07/24/18 13:00

Matrix: Solid

Date Received: 07/24/18 19:00

Percent Solids: 91.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	0.0011	U	0.0011	0.00052	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
1,2-Dichlorobenzene	0.0011	U	0.0011	0.00016	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
1,2-Dichloroethane	0.0011	U	0.0011	0.00033	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
1,2-Dichloropropane	0.0011	U	0.0011	0.00048	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
1,3,5-Trimethylbenzene	0.0011	U	0.0011	0.00013	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
1,3-Dichlorobenzene	0.0011	U	0.0011	0.00018	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
1,4-Dichlorobenzene	0.0011	U	0.0011	0.00011	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
1,4-Dioxane	0.023	U	0.023	0.010	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
2-Butanone (MEK)	0.0056	U	0.0056	0.0013	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
2-Hexanone	0.0056	U *	0.0056	0.00088	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
4-Methyl-2-pentanone (MIBK)	0.0056	U *	0.0056	0.00075	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Acetone	0.0067		0.0056	0.0043	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Benzene	0.0011	U	0.0011	0.00029	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Bromoform	0.0011	U	0.0011	0.00048	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Bromomethane	0.0011	U	0.0011	0.00053	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Carbon disulfide	0.0011	U	0.0011	0.00030	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Carbon tetrachloride	0.0011	U	0.0011	0.00020	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Chlorobenzene	0.0011	U	0.0011	0.00020	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Chlorobromomethane	0.0011	U	0.0011	0.00032	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Chlorodibromomethane	0.0011	U	0.0011	0.00022	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Chloroethane	0.0011	U	0.0011	0.00059	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Chloroform	0.0011	U	0.0011	0.00036	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Chloromethane	0.0011	U	0.0011	0.00049	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
cis-1,2-Dichloroethene	0.0011	U	0.0011	0.00017	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
cis-1,3-Dichloropropene	0.0011	U	0.0011	0.00031	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Cyclohexane	0.0011	U	0.0011	0.00025	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Dichlorobromomethane	0.0011	U	0.0011	0.00029	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Dichlorodifluoromethane	0.0011	U	0.0011	0.00038	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Ethylbenzene	0.0011	U	0.0011	0.00022	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Ethylene Dibromide	0.0011	U	0.0011	0.00020	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Isopropylbenzene	0.0011	U	0.0011	0.00014	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Methyl acetate	0.0056	U	0.0056	0.0048	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Methyl tert-butyl ether	0.0011	U	0.0011	0.00014	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Methylcyclohexane	0.0011	U	0.0011	0.00018	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Methylene Chloride	0.00044	J B	0.0011	0.00018	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
m-Xylene & p-Xylene	0.0011	U	0.0011	0.00020	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
n-Butylbenzene	0.0011	U	0.0011	0.00016	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
N-Propylbenzene	0.0011	U	0.0011	0.00020	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
o-Xylene	0.0011	U	0.0011	0.00011	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
sec-Butylbenzene	0.0011	U	0.0011	0.000099	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Styrene	0.0011	U	0.0011	0.00014	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
tert-Butylbenzene	0.0011	U	0.0011	0.00014	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Tetrachloroethene	0.0011	U	0.0011	0.00016	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Toluene	0.0011	U	0.0011	0.00070	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
trans-1,2-Dichloroethene	0.0011	U	0.0011	0.00028	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
trans-1,3-Dichloropropene	0.0011	U	0.0011	0.00030	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Trichloroethene	0.0011	U	0.0011	0.00016	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Trichlorofluoromethane	0.0011	U	0.0011	0.00046	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Vinyl chloride	0.0011	U	0.0011	0.00061	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Client Sample ID: MR-4_1_1.5

Lab Sample ID: 460-161116-2

Date Collected: 07/24/18 13:00

Matrix: Solid

Date Received: 07/24/18 19:00

Percent Solids: 91.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.0023	U	0.0023	0.00028	mg/Kg	☼	07/25/18 07:29	07/27/18 09:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		78 - 135				07/25/18 07:29	07/27/18 09:34	1
4-Bromofluorobenzene	104		67 - 126				07/25/18 07:29	07/27/18 09:34	1
Dibromofluoromethane (Surr)	105		61 - 149				07/25/18 07:29	07/27/18 09:34	1
Toluene-d8 (Surr)	103		73 - 121				07/25/18 07:29	07/27/18 09:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.36	U	0.36	0.0048	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
1,2,4,5-Tetrachlorobenzene	0.36	U	0.36	0.0047	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
2,2'-oxybis[1-chloropropane]	0.36	U	0.36	0.0066	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
2,3,4,6-Tetrachlorophenol	0.36	U	0.36	0.025	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
2,4,5-Trichlorophenol	0.36	U	0.36	0.012	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.018	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
2,4-Dichlorophenol	0.15	U	0.15	0.0077	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
2,4-Dimethylphenol	0.36	U	0.36	0.016	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
2,4-Dinitrophenol	0.29	U	0.29	0.18	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
2,4-Dinitrotoluene	0.073	U	0.073	0.018	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
2,6-Dinitrotoluene	0.073	U	0.073	0.012	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
2-Chloronaphthalene	0.36	U	0.36	0.017	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
2-Chlorophenol	0.36	U	0.36	0.0051	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
2-Methylnaphthalene	0.011	J	0.36	0.0045	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
2-Methylphenol	0.36	U	0.36	0.0059	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
2-Nitroaniline	0.36	U	0.36	0.014	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
2-Nitrophenol	0.36	U	0.36	0.012	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
3 & 4 Methylphenol	0.36	U	0.36	0.0062	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.055	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
3-Nitroaniline	0.36	U	0.36	0.020	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
4,6-Dinitro-2-methylphenol	0.29	U	0.29	0.059	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
4-Bromophenyl phenyl ether	0.36	U	0.36	0.0047	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
4-Chloro-3-methylphenol	0.36	U	0.36	0.0060	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
4-Chloroaniline	0.36	U	0.36	0.025	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
4-Chlorophenyl phenyl ether	0.36	U	0.36	0.0057	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
4-Methylphenol	0.36	U	0.36	0.0062	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
4-Nitroaniline	0.36	U	0.36	0.014	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
4-Nitrophenol	0.73	U	0.73	0.059	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Acenaphthene	0.36	U	0.36	0.026	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Acenaphthylene	0.014	J	0.36	0.0037	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Acetophenone	0.36	U	0.36	0.0058	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Anthracene	0.057	J	0.36	0.0041	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Atrazine	0.15	U	0.15	0.0091	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Benzaldehyde	0.36	U *	0.36	0.016	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Benzo[a]anthracene	0.25		0.036	0.013	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Benzo[a]pyrene	0.25		0.036	0.0097	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Benzo[b]fluoranthene	0.34		0.036	0.0094	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Benzo[g,h,i]perylene	0.19	J	0.36	0.011	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Benzo[k]fluoranthene	0.11		0.036	0.0071	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Bis(2-chloroethoxy)methane	0.36	U	0.36	0.012	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Client Sample ID: MR-4_1_1.5

Date Collected: 07/24/18 13:00

Date Received: 07/24/18 19:00

Lab Sample ID: 460-161116-2

Matrix: Solid

Percent Solids: 91.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	0.036	U	0.036	0.0044	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Bis(2-ethylhexyl) phthalate	0.15	J	0.36	0.019	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Butyl benzyl phthalate	0.36	U	0.36	0.017	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Caprolactam	0.36	U	0.36	0.022	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Carbazole	0.027	J	0.36	0.0042	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Chrysene	0.26	J	0.36	0.0061	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Dibenz(a,h)anthracene	0.041		0.036	0.016	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Dibenzofuran	0.36	U	0.36	0.0051	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Diethyl phthalate	0.36	U	0.36	0.0053	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Dimethyl phthalate	0.36	U	0.36	0.0044	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Di-n-butyl phthalate	0.36	U	0.36	0.064	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Di-n-octyl phthalate	0.36	U	0.36	0.019	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Fluoranthene	0.45		0.36	0.0047	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Fluorene	0.017	J	0.36	0.0049	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Hexachlorobenzene	0.036	U	0.036	0.0053	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Hexachlorobutadiene	0.073	U	0.073	0.0077	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Hexachlorocyclopentadiene	0.36	U	0.36	0.032	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Hexachloroethane	0.036	U	0.036	0.0056	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Indeno[1,2,3-cd]pyrene	0.19		0.036	0.014	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Isophorone	0.15	U	0.15	0.0095	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Naphthalene	0.014	J	0.36	0.0063	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Nitrobenzene	0.036	U	0.036	0.0087	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
N-Nitrosodi-n-propylamine	0.036	U	0.036	0.0058	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
N-Nitrosodiphenylamine	0.36	U	0.36	0.0069	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Pentachlorophenol	0.29	U	0.29	0.074	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Phenanthrene	0.23	J	0.36	0.0064	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Phenol	0.36	U *	0.36	0.0054	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1
Pyrene	0.47		0.36	0.0090	mg/Kg	☼	07/25/18 10:51	07/26/18 07:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	43		10 - 103	07/25/18 10:51	07/26/18 07:17	1
2-Fluorobiphenyl	56		38 - 95	07/25/18 10:51	07/26/18 07:17	1
2-Fluorophenol (Surr)	63		25 - 92	07/25/18 10:51	07/26/18 07:17	1
Nitrobenzene-d5 (Surr)	63		37 - 94	07/25/18 10:51	07/26/18 07:17	1
Phenol-d5 (Surr)	61		32 - 91	07/25/18 10:51	07/26/18 07:17	1
Terphenyl-d14 (Surr)	51		24 - 109	07/25/18 10:51	07/26/18 07:17	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0073	U	0.0073	0.0013	mg/Kg	☼	07/25/18 20:20	07/26/18 11:14	1
4,4'-DDE	0.0073	U	0.0073	0.00087	mg/Kg	☼	07/25/18 20:20	07/26/18 11:14	1
4,4'-DDT	0.0073	U	0.0073	0.0013	mg/Kg	☼	07/25/18 20:20	07/26/18 11:14	1
Aldrin	0.0073	U	0.0073	0.0011	mg/Kg	☼	07/25/18 20:20	07/26/18 11:14	1
alpha-BHC	0.0022	U	0.0022	0.00075	mg/Kg	☼	07/25/18 20:20	07/26/18 11:14	1
beta-BHC	0.0022	U	0.0022	0.00082	mg/Kg	☼	07/25/18 20:20	07/26/18 11:14	1
Chlordane (technical)	0.073	U	0.073	0.018	mg/Kg	☼	07/25/18 20:20	07/26/18 11:14	1
cis-Chlordane	0.0073	U	0.0073	0.0012	mg/Kg	☼	07/25/18 20:20	07/26/18 11:14	1
delta-BHC	0.0022	U	0.0022	0.00045	mg/Kg	☼	07/25/18 20:20	07/26/18 11:14	1
Dieldrin	0.0022	U	0.0022	0.00095	mg/Kg	☼	07/25/18 20:20	07/26/18 11:14	1
Endosulfan I	0.0073	U	0.0073	0.0011	mg/Kg	☼	07/25/18 20:20	07/26/18 11:14	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Client Sample ID: MR-4_1_1.5

Date Collected: 07/24/18 13:00

Date Received: 07/24/18 19:00

Lab Sample ID: 460-161116-2

Matrix: Solid

Percent Solids: 91.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	0.0073	U	0.0073	0.0019	mg/Kg	☼	07/25/18 20:20	07/26/18 11:14	1
Endosulfan sulfate	0.0073	U	0.0073	0.00092	mg/Kg	☼	07/25/18 20:20	07/26/18 11:14	1
Endrin	0.0073	U	0.0073	0.0011	mg/Kg	☼	07/25/18 20:20	07/26/18 11:14	1
Endrin aldehyde	0.0073	U	0.0073	0.0017	mg/Kg	☼	07/25/18 20:20	07/26/18 11:14	1
Endrin ketone	0.0073	U	0.0073	0.0014	mg/Kg	☼	07/25/18 20:20	07/26/18 11:14	1
gamma-BHC (Lindane)	0.0022	U	0.0022	0.00068	mg/Kg	☼	07/25/18 20:20	07/26/18 11:14	1
Heptachlor	0.0073	U	0.0073	0.00087	mg/Kg	☼	07/25/18 20:20	07/26/18 11:14	1
Heptachlor epoxide	0.0073	U	0.0073	0.0011	mg/Kg	☼	07/25/18 20:20	07/26/18 11:14	1
Methoxychlor	0.0073	U	0.0073	0.0017	mg/Kg	☼	07/25/18 20:20	07/26/18 11:14	1
Toxaphene	0.073	U	0.073	0.027	mg/Kg	☼	07/25/18 20:20	07/26/18 11:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	89		69 - 150	07/25/18 20:20	07/26/18 11:14	1
DCB Decachlorobiphenyl	89		69 - 150	07/25/18 20:20	07/26/18 11:14	1
Tetrachloro-m-xylene	94		74 - 150	07/25/18 20:20	07/26/18 11:14	1
Tetrachloro-m-xylene	91		74 - 150	07/25/18 20:20	07/26/18 11:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.073	U	0.073	0.0098	mg/Kg	☼	07/25/18 20:26	07/26/18 14:48	1
Aroclor 1221	0.073	U	0.073	0.0098	mg/Kg	☼	07/25/18 20:26	07/26/18 14:48	1
Aroclor 1232	0.073	U	0.073	0.0098	mg/Kg	☼	07/25/18 20:26	07/26/18 14:48	1
Aroclor 1242	0.073	U	0.073	0.0098	mg/Kg	☼	07/25/18 20:26	07/26/18 14:48	1
Aroclor 1248	0.073	U	0.073	0.0098	mg/Kg	☼	07/25/18 20:26	07/26/18 14:48	1
Aroclor 1254	0.073	U	0.073	0.010	mg/Kg	☼	07/25/18 20:26	07/26/18 14:48	1
Aroclor 1260	0.073	U	0.073	0.010	mg/Kg	☼	07/25/18 20:26	07/26/18 14:48	1
Aroclor-1262	0.073	U	0.073	0.010	mg/Kg	☼	07/25/18 20:26	07/26/18 14:48	1
Aroclor 1268	0.073	U	0.073	0.010	mg/Kg	☼	07/25/18 20:26	07/26/18 14:48	1
Polychlorinated biphenyls, Total	0.073	U	0.073	0.010	mg/Kg	☼	07/25/18 20:26	07/26/18 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	105		53 - 150	07/25/18 20:26	07/26/18 14:48	1
DCB Decachlorobiphenyl	117		53 - 150	07/25/18 20:26	07/26/18 14:48	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.037	U	0.037	0.0078	mg/Kg	☼	07/28/18 01:25	07/29/18 07:37	1
2,4-D	0.037	U	0.037	0.013	mg/Kg	☼	07/28/18 01:25	07/29/18 07:37	1
Silvex (2,4,5-TP)	0.037	U	0.037	0.0038	mg/Kg	☼	07/28/18 01:25	07/29/18 07:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	118		80 - 150	07/28/18 01:25	07/29/18 07:37	1
2,4-Dichlorophenylacetic acid	134		80 - 150	07/28/18 01:25	07/29/18 07:37	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7150		20.3	7.0	mg/Kg	☼	07/26/18 00:10	07/26/18 18:27	20
Antimony	0.81	J	1.0	0.30	mg/Kg	☼	07/26/18 00:10	07/26/18 18:27	20
Arsenic	5.3		1.0	0.33	mg/Kg	☼	07/26/18 00:10	07/26/18 18:27	20
Barium	111		2.0	0.67	mg/Kg	☼	07/26/18 00:10	07/26/18 18:27	20
Beryllium	0.27	J	0.41	0.16	mg/Kg	☼	07/26/18 00:10	07/26/18 18:27	20

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Client Sample ID: MR-4_1_1.5

Date Collected: 07/24/18 13:00

Date Received: 07/24/18 19:00

Lab Sample ID: 460-161116-2

Matrix: Solid

Percent Solids: 91.2

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.0		1.0	0.34	mg/Kg	☼	07/26/18 00:10	07/26/18 18:27	20
Calcium	70600		102	30.2	mg/Kg	☼	07/26/18 00:10	07/26/18 18:27	20
Chromium	15.6		2.0	0.61	mg/Kg	☼	07/26/18 00:10	07/26/18 18:27	20
Cobalt	5.3		2.0	0.61	mg/Kg	☼	07/26/18 00:10	07/26/18 18:27	20
Copper	37.2		2.0	0.58	mg/Kg	☼	07/26/18 00:10	07/26/18 18:27	20
Iron	12100		60.9	21.3	mg/Kg	☼	07/26/18 00:10	07/26/18 18:27	20
Lead	141		0.61	0.19	mg/Kg	☼	07/26/18 00:10	07/26/18 18:27	20
Magnesium	39600		102	28.2	mg/Kg	☼	07/26/18 00:10	07/26/18 18:27	20
Manganese	237		4.1	1.2	mg/Kg	☼	07/26/18 00:10	07/26/18 18:27	20
Nickel	16.5		2.0	0.66	mg/Kg	☼	07/26/18 00:10	07/26/18 18:27	20
Potassium	2380		102	36.6	mg/Kg	☼	07/26/18 00:10	07/26/18 18:27	20
Selenium	5.1	U	5.1	0.29	mg/Kg	☼	07/26/18 00:10	07/26/18 18:27	20
Silver	1.0	U	1.0	0.63	mg/Kg	☼	07/26/18 00:10	07/26/18 18:27	20
Sodium	427		102	31.8	mg/Kg	☼	07/26/18 00:10	07/26/18 18:27	20
Thallium	0.15	J	0.41	0.13	mg/Kg	☼	07/26/18 00:10	07/26/18 18:27	20
Vanadium	29.2		2.0	0.58	mg/Kg	☼	07/26/18 00:10	07/26/18 18:27	20
Zinc	274		8.1	4.0	mg/Kg	☼	07/26/18 00:10	07/26/18 18:27	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.018	0.011	mg/Kg	☼	07/26/18 04:34	07/26/18 09:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.14	J	0.26	0.069	mg/Kg	☼	07/26/18 14:53	07/27/18 13:20	1

Client Sample ID: MR-4_9.5_11

Date Collected: 07/24/18 13:10

Date Received: 07/24/18 19:00

Lab Sample ID: 460-161116-3

Matrix: Solid

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0013	U	0.0013	0.00030	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
1,1,2,2-Tetrachloroethane	0.0013	U	0.0013	0.00027	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0013	U	0.0013	0.00039	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
1,1,2-Trichloroethane	0.0013	U	0.0013	0.00023	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
1,1-Dichloroethane	0.0013	U	0.0013	0.00026	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
1,1-Dichloroethene	0.0013	U	0.0013	0.00029	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
1,2,3-Trichlorobenzene	0.0013	U	0.0013	0.00023	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
1,2,4-Trichlorobenzene	0.0013	U	0.0013	0.00012	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
1,2,4-Trimethylbenzene	0.0013	U	0.0013	0.00012	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
1,2-Dibromo-3-Chloropropane	0.0013	U	0.0013	0.00059	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
1,2-Dichlorobenzene	0.0013	U	0.0013	0.00018	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
1,2-Dichloroethane	0.0013	U	0.0013	0.00038	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
1,2-Dichloropropane	0.0013	U	0.0013	0.00054	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
1,3,5-Trimethylbenzene	0.0013	U	0.0013	0.00015	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
1,3-Dichlorobenzene	0.0013	U	0.0013	0.00020	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
1,4-Dichlorobenzene	0.0013	U	0.0013	0.00013	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
1,4-Dioxane	0.026	U	0.026	0.012	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
2-Butanone (MEK)	0.0040	J	0.0064	0.0014	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Client Sample ID: MR-4_9.5_11

Lab Sample ID: 460-161116-3

Date Collected: 07/24/18 13:10

Matrix: Solid

Date Received: 07/24/18 19:00

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	0.0019	J *	0.0064	0.0010	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
4-Methyl-2-pentanone (MIBK)	0.0064	U *	0.0064	0.00085	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Acetone	1.6		0.0064	0.0049	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Benzene	0.0013	U	0.0013	0.00033	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Bromoform	0.0013	U	0.0013	0.00054	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Bromomethane	0.0013	U	0.0013	0.00061	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Carbon disulfide	0.0013	U	0.0013	0.00034	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Carbon tetrachloride	0.0013	U	0.0013	0.00023	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Chlorobenzene	0.0013	U	0.0013	0.00023	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Chlorobromomethane	0.0013	U	0.0013	0.00036	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Chlorodibromomethane	0.0013	U	0.0013	0.00025	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Chloroethane	0.0013	U	0.0013	0.00067	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Chloroform	0.0013	U	0.0013	0.00041	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Chloromethane	0.0013	U	0.0013	0.00056	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
cis-1,2-Dichloroethene	0.0013	U	0.0013	0.00019	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
cis-1,3-Dichloropropene	0.0013	U	0.0013	0.00035	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Cyclohexane	0.0044		0.0013	0.00028	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Dichlorobromomethane	0.0013	U	0.0013	0.00033	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Dichlorodifluoromethane	0.0013	U	0.0013	0.00043	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Ethylbenzene	0.0013	U	0.0013	0.00025	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Ethylene Dibromide	0.0013	U	0.0013	0.00023	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Isopropylbenzene	0.0013	U	0.0013	0.00016	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Methyl acetate	0.0064	U	0.0064	0.0055	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Methyl tert-butyl ether	0.0013	U	0.0013	0.00016	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Methylcyclohexane	0.00023	J	0.0013	0.00020	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Methylene Chloride	0.0013	U	0.0013	0.00021	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
m-Xylene & p-Xylene	0.0013	U	0.0013	0.00022	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
n-Butylbenzene	0.0013	U	0.0013	0.00018	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
N-Propylbenzene	0.0013	U	0.0013	0.00022	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
o-Xylene	0.0013	U	0.0013	0.00012	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
sec-Butylbenzene	0.0013	U	0.0013	0.00011	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Styrene	0.0013	U	0.0013	0.00016	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
tert-Butylbenzene	0.0013	U	0.0013	0.00016	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Tetrachloroethene	0.0013	U	0.0013	0.00018	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Toluene	0.0030		0.0013	0.00080	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
trans-1,2-Dichloroethene	0.0013	U	0.0013	0.00031	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
trans-1,3-Dichloropropene	0.0013	U	0.0013	0.00034	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Trichloroethene	0.0013	U	0.0013	0.00018	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Trichlorofluoromethane	0.0013	U	0.0013	0.00052	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Vinyl chloride	0.0013	U	0.0013	0.00070	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1
Xylenes, Total	0.0026	U	0.0026	0.00032	mg/Kg	☼	07/25/18 07:30	07/27/18 09:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		78 - 135	07/25/18 07:30	07/27/18 09:59	1
4-Bromofluorobenzene	109		67 - 126	07/25/18 07:30	07/27/18 09:59	1
Dibromofluoromethane (Surr)	103		61 - 149	07/25/18 07:30	07/27/18 09:59	1
Toluene-d8 (Surr)	105		73 - 121	07/25/18 07:30	07/27/18 09:59	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Client Sample ID: MR-4_9.5_11

Lab Sample ID: 460-161116-3

Date Collected: 07/24/18 13:10

Matrix: Solid

Date Received: 07/24/18 19:00

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.38	U	0.38	0.0051	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
1,2,4,5-Tetrachlorobenzene	0.38	U	0.38	0.0050	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
2,2'-oxybis[1-chloropropane]	0.38	U	0.38	0.0069	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
2,3,4,6-Tetrachlorophenol	0.38	U	0.38	0.026	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
2,4,5-Trichlorophenol	0.38	U	0.38	0.013	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.019	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
2,4-Dichlorophenol	0.15	U	0.15	0.0081	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
2,4-Dimethylphenol	0.38	U	0.38	0.017	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
2,4-Dinitrophenol	0.31	U	0.31	0.19	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
2,4-Dinitrotoluene	0.077	U	0.077	0.019	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
2,6-Dinitrotoluene	0.077	U	0.077	0.012	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
2-Chloronaphthalene	0.38	U	0.38	0.018	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
2-Chlorophenol	0.38	U	0.38	0.0054	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
2-Methylnaphthalene	0.38	U	0.38	0.0048	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
2-Methylphenol	0.38	U	0.38	0.0062	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
2-Nitroaniline	0.38	U	0.38	0.014	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
2-Nitrophenol	0.38	U	0.38	0.012	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
3 & 4 Methylphenol	0.38	U	0.38	0.0065	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.058	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
3-Nitroaniline	0.38	U	0.38	0.021	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
4,6-Dinitro-2-methylphenol	0.31	U	0.31	0.062	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
4-Bromophenyl phenyl ether	0.38	U	0.38	0.0049	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
4-Chloro-3-methylphenol	0.38	U	0.38	0.0064	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
4-Chloroaniline	0.38	U	0.38	0.027	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
4-Chlorophenyl phenyl ether	0.38	U	0.38	0.0060	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
4-Methylphenol	0.38	U	0.38	0.0065	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
4-Nitroaniline	0.38	U	0.38	0.014	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
4-Nitrophenol	0.77	U	0.77	0.062	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Acenaphthene	0.38	U	0.38	0.028	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Acenaphthylene	0.38	U	0.38	0.0040	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Acetophenone	0.38	U	0.38	0.0062	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Anthracene	0.047	J	0.38	0.0043	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Atrazine	0.15	U	0.15	0.0096	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Benzaldehyde	0.38	U *	0.38	0.017	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Benzo[a]anthracene	0.14		0.038	0.013	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Benzo[a]pyrene	0.13		0.038	0.010	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Benzo[b]fluoranthene	0.14		0.038	0.0099	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Benzo[g,h,i]perylene	0.075	J	0.38	0.011	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Benzo[k]fluoranthene	0.069		0.038	0.0075	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Bis(2-chloroethoxy)methane	0.38	U	0.38	0.013	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Bis(2-chloroethyl)ether	0.038	U	0.038	0.0046	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Bis(2-ethylhexyl) phthalate	0.38	U	0.38	0.020	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Butyl benzyl phthalate	0.38	U	0.38	0.018	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Caprolactam	0.38	U	0.38	0.023	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Carbazole	0.016	J	0.38	0.0045	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Chrysene	0.12	J	0.38	0.0065	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Dibenz(a,h)anthracene	0.020	J	0.038	0.017	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Dibenzofuran	0.38	U	0.38	0.0054	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Diethyl phthalate	0.38	U	0.38	0.0055	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Client Sample ID: MR-4_9.5_11

Lab Sample ID: 460-161116-3

Date Collected: 07/24/18 13:10

Matrix: Solid

Date Received: 07/24/18 19:00

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	0.38	U	0.38	0.0046	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Di-n-butyl phthalate	0.38	U	0.38	0.067	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Di-n-octyl phthalate	0.38	U	0.38	0.020	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Fluoranthene	0.24	J	0.38	0.0050	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Fluorene	0.013	J	0.38	0.0052	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Hexachlorobenzene	0.038	U	0.038	0.0056	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Hexachlorobutadiene	0.077	U	0.077	0.0081	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Hexachlorocyclopentadiene	0.38	U	0.38	0.034	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Hexachloroethane	0.038	U	0.038	0.0059	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Indeno[1,2,3-cd]pyrene	0.079		0.038	0.015	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Isophorone	0.15	U	0.15	0.010	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Naphthalene	0.014	J	0.38	0.0066	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Nitrobenzene	0.038	U	0.038	0.0092	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
N-Nitrosodi-n-propylamine	0.038	U	0.038	0.0061	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
N-Nitrosodiphenylamine	0.38	U	0.38	0.0073	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Pentachlorophenol	0.31	U	0.31	0.078	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Phenanthrene	0.16	J	0.38	0.0067	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Phenol	0.38	U *	0.38	0.0057	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1
Pyrene	0.26	J	0.38	0.0095	mg/Kg	☼	07/25/18 10:51	07/26/18 05:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	37		10 - 103	07/25/18 10:51	07/26/18 05:00	1
2-Fluorobiphenyl	55		38 - 95	07/25/18 10:51	07/26/18 05:00	1
2-Fluorophenol (Surr)	66		25 - 92	07/25/18 10:51	07/26/18 05:00	1
Nitrobenzene-d5 (Surr)	64		37 - 94	07/25/18 10:51	07/26/18 05:00	1
Phenol-d5 (Surr)	66		32 - 91	07/25/18 10:51	07/26/18 05:00	1
Terphenyl-d14 (Surr)	56		24 - 109	07/25/18 10:51	07/26/18 05:00	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0078	U	0.0078	0.0013	mg/Kg	☼	07/25/18 20:20	07/26/18 11:27	1
4,4'-DDE	0.0078	U	0.0078	0.00091	mg/Kg	☼	07/25/18 20:20	07/26/18 11:27	1
4,4'-DDT	0.0078	U	0.0078	0.0014	mg/Kg	☼	07/25/18 20:20	07/26/18 11:27	1
Aldrin	0.0078	U	0.0078	0.0012	mg/Kg	☼	07/25/18 20:20	07/26/18 11:27	1
alpha-BHC	0.0023	U	0.0023	0.00079	mg/Kg	☼	07/25/18 20:20	07/26/18 11:27	1
beta-BHC	0.0023	U	0.0023	0.00087	mg/Kg	☼	07/25/18 20:20	07/26/18 11:27	1
Chlordane (technical)	0.078	U	0.078	0.019	mg/Kg	☼	07/25/18 20:20	07/26/18 11:27	1
cis-Chlordane	0.0078	U	0.0078	0.0012	mg/Kg	☼	07/25/18 20:20	07/26/18 11:27	1
delta-BHC	0.0023	U	0.0023	0.00047	mg/Kg	☼	07/25/18 20:20	07/26/18 11:27	1
Dieldrin	0.0023	U	0.0023	0.0010	mg/Kg	☼	07/25/18 20:20	07/26/18 11:27	1
Endosulfan I	0.0078	U	0.0078	0.0012	mg/Kg	☼	07/25/18 20:20	07/26/18 11:27	1
Endosulfan II	0.0078	U	0.0078	0.0020	mg/Kg	☼	07/25/18 20:20	07/26/18 11:27	1
Endosulfan sulfate	0.0078	U	0.0078	0.00097	mg/Kg	☼	07/25/18 20:20	07/26/18 11:27	1
Endrin	0.0078	U	0.0078	0.0011	mg/Kg	☼	07/25/18 20:20	07/26/18 11:27	1
Endrin aldehyde	0.0078	U	0.0078	0.0018	mg/Kg	☼	07/25/18 20:20	07/26/18 11:27	1
Endrin ketone	0.0078	U	0.0078	0.0015	mg/Kg	☼	07/25/18 20:20	07/26/18 11:27	1
gamma-BHC (Lindane)	0.0023	U	0.0023	0.00072	mg/Kg	☼	07/25/18 20:20	07/26/18 11:27	1
Heptachlor	0.0078	U	0.0078	0.00091	mg/Kg	☼	07/25/18 20:20	07/26/18 11:27	1
Heptachlor epoxide	0.0078	U	0.0078	0.0012	mg/Kg	☼	07/25/18 20:20	07/26/18 11:27	1
Methoxychlor	0.0078	U	0.0078	0.0018	mg/Kg	☼	07/25/18 20:20	07/26/18 11:27	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Client Sample ID: MR-4_9.5_11

Date Collected: 07/24/18 13:10

Date Received: 07/24/18 19:00

Lab Sample ID: 460-161116-3

Matrix: Solid

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	0.078	U	0.078	0.028	mg/Kg	☼	07/25/18 20:20	07/26/18 11:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	87		69 - 150				07/25/18 20:20	07/26/18 11:27	1
DCB Decachlorobiphenyl	89		69 - 150				07/25/18 20:20	07/26/18 11:27	1
Tetrachloro-m-xylene	87		74 - 150				07/25/18 20:20	07/26/18 11:27	1
Tetrachloro-m-xylene	90		74 - 150				07/25/18 20:20	07/26/18 11:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.078	U	0.078	0.010	mg/Kg	☼	07/25/18 20:26	07/26/18 15:05	1
Aroclor 1221	0.078	U	0.078	0.010	mg/Kg	☼	07/25/18 20:26	07/26/18 15:05	1
Aroclor 1232	0.078	U	0.078	0.010	mg/Kg	☼	07/25/18 20:26	07/26/18 15:05	1
Aroclor 1242	0.078	U	0.078	0.010	mg/Kg	☼	07/25/18 20:26	07/26/18 15:05	1
Aroclor 1248	0.078	U	0.078	0.010	mg/Kg	☼	07/25/18 20:26	07/26/18 15:05	1
Aroclor 1254	0.078	U	0.078	0.011	mg/Kg	☼	07/25/18 20:26	07/26/18 15:05	1
Aroclor 1260	0.078	U	0.078	0.011	mg/Kg	☼	07/25/18 20:26	07/26/18 15:05	1
Aroclor-1262	0.078	U	0.078	0.011	mg/Kg	☼	07/25/18 20:26	07/26/18 15:05	1
Aroclor 1268	0.078	U	0.078	0.011	mg/Kg	☼	07/25/18 20:26	07/26/18 15:05	1
Polychlorinated biphenyls, Total	0.078	U	0.078	0.011	mg/Kg	☼	07/25/18 20:26	07/26/18 15:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	100		53 - 150				07/25/18 20:26	07/26/18 15:05	1
DCB Decachlorobiphenyl	113		53 - 150				07/25/18 20:26	07/26/18 15:05	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.039	U	0.039	0.0082	mg/Kg	☼	07/28/18 01:25	07/29/18 07:51	1
2,4-D	0.039	U	0.039	0.014	mg/Kg	☼	07/28/18 01:25	07/29/18 07:51	1
Silvex (2,4,5-TP)	0.039	U	0.039	0.0040	mg/Kg	☼	07/28/18 01:25	07/29/18 07:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	112		80 - 150				07/28/18 01:25	07/29/18 07:51	1
2,4-Dichlorophenylacetic acid	124		80 - 150				07/28/18 01:25	07/29/18 07:51	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8560		21.2	7.3	mg/Kg	☼	07/26/18 00:10	07/26/18 18:30	20
Antimony	1.1	U	1.1	0.31	mg/Kg	☼	07/26/18 00:10	07/26/18 18:30	20
Arsenic	2.3		1.1	0.34	mg/Kg	☼	07/26/18 00:10	07/26/18 18:30	20
Barium	48.6		2.1	0.70	mg/Kg	☼	07/26/18 00:10	07/26/18 18:30	20
Beryllium	0.33	J	0.42	0.17	mg/Kg	☼	07/26/18 00:10	07/26/18 18:30	20
Cadmium	1.1	U	1.1	0.36	mg/Kg	☼	07/26/18 00:10	07/26/18 18:30	20
Calcium	30300		106	31.5	mg/Kg	☼	07/26/18 00:10	07/26/18 18:30	20
Chromium	15.3		2.1	0.64	mg/Kg	☼	07/26/18 00:10	07/26/18 18:30	20
Cobalt	5.8		2.1	0.64	mg/Kg	☼	07/26/18 00:10	07/26/18 18:30	20
Copper	18.3		2.1	0.61	mg/Kg	☼	07/26/18 00:10	07/26/18 18:30	20
Iron	14200		63.7	22.3	mg/Kg	☼	07/26/18 00:10	07/26/18 18:30	20
Lead	33.6		0.64	0.20	mg/Kg	☼	07/26/18 00:10	07/26/18 18:30	20
Magnesium	18700		106	29.5	mg/Kg	☼	07/26/18 00:10	07/26/18 18:30	20
Manganese	351		4.2	1.3	mg/Kg	☼	07/26/18 00:10	07/26/18 18:30	20

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Client Sample ID: MR-4_9.5_11

Date Collected: 07/24/18 13:10

Date Received: 07/24/18 19:00

Lab Sample ID: 460-161116-3

Matrix: Solid

Percent Solids: 86.4

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	13.3		2.1	0.69	mg/Kg	☼	07/26/18 00:10	07/26/18 18:30	20
Potassium	1620		106	38.2	mg/Kg	☼	07/26/18 00:10	07/26/18 18:30	20
Selenium	5.3	U	5.3	0.31	mg/Kg	☼	07/26/18 00:10	07/26/18 18:30	20
Silver	1.1	U	1.1	0.66	mg/Kg	☼	07/26/18 00:10	07/26/18 18:30	20
Sodium	436		106	33.2	mg/Kg	☼	07/26/18 00:10	07/26/18 18:30	20
Thallium	0.42	U	0.42	0.13	mg/Kg	☼	07/26/18 00:10	07/26/18 18:30	20
Vanadium	17.6		2.1	0.60	mg/Kg	☼	07/26/18 00:10	07/26/18 18:30	20
Zinc	178		8.5	4.1	mg/Kg	☼	07/26/18 00:10	07/26/18 18:30	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	U	0.019	0.011	mg/Kg	☼	07/26/18 04:34	07/26/18 08:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.082	J	0.25	0.065	mg/Kg	☼	07/26/18 14:53	07/27/18 13:21	1

Client Sample ID: MR-12_3_4

Date Collected: 07/24/18 13:40

Date Received: 07/24/18 19:00

Lab Sample ID: 460-161116-4

Matrix: Solid

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00024	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00022	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00031	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00019	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.000094	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
1,2,4-Trimethylbenzene	0.011		0.0010	0.000096	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00047	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00015	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00043	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
1,3,5-Trimethylbenzene	0.0037		0.0010	0.00012	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00016	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00010	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
1,4-Dioxane	0.020	U	0.020	0.0094	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
2-Butanone (MEK)	0.0032	J	0.0051	0.0011	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
2-Hexanone	0.0051	U *	0.0051	0.00080	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
4-Methyl-2-pentanone (MIBK)	0.0051	U *	0.0051	0.00068	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Acetone	0.016		0.0051	0.0039	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Benzene	0.0011		0.0010	0.00026	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Bromoform	0.0010	U	0.0010	0.00044	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Bromomethane	0.0010	U	0.0010	0.00049	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Carbon disulfide	0.00075	J	0.0010	0.00027	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Carbon tetrachloride	0.0010	U	0.0010	0.00019	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Client Sample ID: MR-12_3_4

Lab Sample ID: 460-161116-4

Date Collected: 07/24/18 13:40

Matrix: Solid

Date Received: 07/24/18 19:00

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobromomethane	0.0010	U	0.0010	0.00029	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Chlorodibromomethane	0.0010	U	0.0010	0.00020	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Chloroethane	0.0010	U	0.0010	0.00054	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Chloroform	0.0010	U	0.0010	0.00033	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Chloromethane	0.0010	U	0.0010	0.00045	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00016	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00028	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Cyclohexane	0.0010	U	0.0010	0.00023	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00035	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Ethylbenzene	0.014		0.0010	0.00020	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Isopropylbenzene	0.0042		0.0010	0.00013	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Methyl acetate	0.0051	U	0.0051	0.0044	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00013	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Methylcyclohexane	0.0010	U	0.0010	0.00016	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Methylene Chloride	0.0020	B	0.0010	0.00017	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
m-Xylene & p-Xylene	0.0082		0.0010	0.00018	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
n-Butylbenzene	0.00015	J	0.0010	0.00015	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
N-Propylbenzene	0.00097	J	0.0010	0.00018	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
o-Xylene	0.0038		0.0010	0.000097	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
sec-Butylbenzene	0.0010	U	0.0010	0.000090	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Styrene	0.00030	J	0.0010	0.00013	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
tert-Butylbenzene	0.0010	U	0.0010	0.00013	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Tetrachloroethene	0.0010	U	0.0010	0.00015	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Toluene	0.0022		0.0010	0.00064	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Trichloroethene	0.0010	U	0.0010	0.00015	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00042	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Vinyl chloride	0.0010	U	0.0010	0.00056	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1
Xylenes, Total	0.012		0.0020	0.00026	mg/Kg	☼	07/25/18 07:31	07/27/18 10:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		78 - 135	07/25/18 07:31	07/27/18 10:23	1
4-Bromofluorobenzene	106		67 - 126	07/25/18 07:31	07/27/18 10:23	1
Dibromofluoromethane (Surr)	101		61 - 149	07/25/18 07:31	07/27/18 10:23	1
Toluene-d8 (Surr)	103		73 - 121	07/25/18 07:31	07/27/18 10:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.039	J	0.40	0.0053	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
1,2,4,5-Tetrachlorobenzene	0.40	U	0.40	0.0052	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
2,2'-oxybis[1-chloropropane]	0.40	U	0.40	0.0072	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
2,3,4,6-Tetrachlorophenol	0.40	U	0.40	0.027	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
2,4,5-Trichlorophenol	0.40	U	0.40	0.013	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
2,4,6-Trichlorophenol	0.16	U	0.16	0.020	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
2,4-Dichlorophenol	0.16	U	0.16	0.0084	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
2,4-Dimethylphenol	0.40	U	0.40	0.017	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
2,4-Dinitrophenol	0.32	U	0.32	0.19	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Client Sample ID: MR-12_3_4

Date Collected: 07/24/18 13:40

Date Received: 07/24/18 19:00

Lab Sample ID: 460-161116-4

Matrix: Solid

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	0.080	U	0.080	0.020	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
2,6-Dinitrotoluene	0.080	U	0.080	0.013	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
2-Chloronaphthalene	0.40	U	0.40	0.018	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
2-Chlorophenol	0.40	U	0.40	0.0056	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
2-Methylnaphthalene	0.22	J	0.40	0.0049	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
2-Methylphenol	0.40	U	0.40	0.0064	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
2-Nitroaniline	0.40	U	0.40	0.015	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
2-Nitrophenol	0.40	U	0.40	0.013	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
3 & 4 Methylphenol	0.40	U	0.40	0.0068	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
3,3'-Dichlorobenzidine	0.16	U	0.16	0.060	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
3-Nitroaniline	0.40	U	0.40	0.021	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
4,6-Dinitro-2-methylphenol	0.32	U	0.32	0.064	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
4-Bromophenyl phenyl ether	0.40	U	0.40	0.0051	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
4-Chloro-3-methylphenol	0.40	U	0.40	0.0066	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
4-Chloroaniline	0.40	U	0.40	0.028	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
4-Chlorophenyl phenyl ether	0.40	U	0.40	0.0062	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
4-Methylphenol	0.40	U	0.40	0.0068	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
4-Nitroaniline	0.40	U	0.40	0.015	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
4-Nitrophenol	0.80	U	0.80	0.065	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Acenaphthene	0.30	J	0.40	0.029	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Acenaphthylene	0.40	U	0.40	0.0041	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Acetophenone	0.40	U	0.40	0.0064	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Anthracene	0.24	J	0.40	0.0044	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Atrazine	0.16	U	0.16	0.010	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Benzaldehyde	0.40	U *	0.40	0.017	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Benzo[a]anthracene	0.19		0.040	0.014	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Benzo[a]pyrene	0.10		0.040	0.011	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Benzo[b]fluoranthene	0.15		0.040	0.010	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Benzo[g,h,i]perylene	0.046	J	0.40	0.012	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Benzo[k]fluoranthene	0.040	U	0.040	0.0078	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Bis(2-chloroethoxy)methane	0.40	U	0.40	0.014	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Bis(2-chloroethyl)ether	0.040	U	0.040	0.0048	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Bis(2-ethylhexyl) phthalate	0.56		0.40	0.021	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Butyl benzyl phthalate	1.3		0.40	0.019	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Caprolactam	0.40	U	0.40	0.024	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Carbazole	0.34	J	0.40	0.0046	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Chrysene	0.20	J	0.40	0.0067	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Dibenz(a,h)anthracene	0.040	U	0.040	0.017	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Dibenzofuran	0.21	J	0.40	0.0056	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Diethyl phthalate	0.40	U	0.40	0.0057	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Dimethyl phthalate	0.40	U	0.40	0.0048	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Di-n-butyl phthalate	0.40	U	0.40	0.070	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Di-n-octyl phthalate	0.40	U	0.40	0.021	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Fluoranthene	0.97		0.40	0.0051	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Fluorene	0.40		0.40	0.0054	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Hexachlorobenzene	0.040	U	0.040	0.0058	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Hexachlorobutadiene	0.080	U	0.080	0.0084	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Hexachlorocyclopentadiene	0.40	U	0.40	0.035	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Hexachloroethane	0.040	U	0.040	0.0061	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161116-1

Client Sample ID: MR-12_3_4

Lab Sample ID: 460-161116-4

Date Collected: 07/24/18 13:40

Matrix: Solid

Date Received: 07/24/18 19:00

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.054		0.040	0.015	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Isophorone	0.16	U	0.16	0.010	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Naphthalene	1.8		0.40	0.0069	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Nitrobenzene	0.040	U	0.040	0.0095	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
N-Nitrosodi-n-propylamine	0.040	U	0.040	0.0063	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
N-Nitrosodiphenylamine	0.40	U	0.40	0.0076	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Pentachlorophenol	0.32	U	0.32	0.081	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Phenanthrene	1.4		0.40	0.0070	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Phenol	0.40	U *	0.40	0.0059	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1
Pyrene	0.86		0.40	0.0099	mg/Kg	☼	07/25/18 10:51	07/26/18 05:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	42		10 - 103	07/25/18 10:51	07/26/18 05:23	1
2-Fluorobiphenyl	50		38 - 95	07/25/18 10:51	07/26/18 05:23	1
2-Fluorophenol (Surr)	58		25 - 92	07/25/18 10:51	07/26/18 05:23	1
Nitrobenzene-d5 (Surr)	45		37 - 94	07/25/18 10:51	07/26/18 05:23	1
Phenol-d5 (Surr)	58		32 - 91	07/25/18 10:51	07/26/18 05:23	1
Terphenyl-d14 (Surr)	57		24 - 109	07/25/18 10:51	07/26/18 05:23	1

ANALYTICAL REPORT

Job Number: 460-161306-1

Job Description: Taconic Inwood

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, NY 11749
Attention: Ms. Jessica Taylor

Melissa Haas

Approved for release.
Melissa Haas
Project Manager I
11/19/2018 2:40 PM

Melissa Haas, Project Manager I
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11/19/2018
Revision: 1

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TestAmerica Laboratories, Inc.

TestAmerica Edison 777 New Durham Road, Edison, NJ 08817
Tel (732) 549-3900 Fax (732) 549-3679 www.testamericainc.com



Job Number: 460-161306-1

Job Description: Taconic Inwood

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

A handwritten signature in dark ink that reads "Melissa Haas". The signature is written in a cursive style with a horizontal line underneath the text.

Approved for release.
Melissa Haas
Project Manager I
11/19/2018 2:40 PM

Melissa Haas

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CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: Taconic Inwood

Report Number: 460-161306-1

Revised Report #1

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

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

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

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

REVISED REPORT #1

The following report required a revision: 460-161306-1. Details are as follows: The client requested the addition of NY Part 375 compounds for VOCs, SVOCs, and Pesticides.

RECEIPT

The samples were received on 7/26/2018 7:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

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

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MR-9_1_1.5 (460-161306-1) and MR-9_8_9 (460-161306-2) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260C. The samples were prepared on 07/27/2018 and analyzed on 07/29/2018.

The continuing calibration verification (CCV) associated with batch 460-540527 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

Methylene Chloride was detected in method blank LB3 460-540162/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

PESTICIDES

Samples MR-9_1_1.5 (460-161306-1) and MR-9_8_9 (460-161306-2) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 07/27/2018 and analyzed on 07/28/2018.

Several analytes failed the recovery criteria low for the Matrix Spike/Matrix Spike Duplicate (MS/MSD) of sample 460-161138-1 in batch 460-540321. Several analytes exceeded the RPD limit of the MSD.

Refer to the QC report for details.

No other difficulties were encountered during the Pesticides analysis.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS

Samples MR-9_1_1.5 (460-161306-1) and MR-9_8_9 (460-161306-2) were analyzed for polychlorinated biphenyls in accordance with EPA SW-846 Method 8082A. The samples were prepared on 07/27/2018 and analyzed on 07/28/2018.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

CHLORINATED HERBICIDES

Samples MR-9_1_1.5 (460-161306-1) and MR-9_8_9 (460-161306-2) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 07/28/2018 and analyzed on 07/29/2018.

The 2,4-Dichlorophenylacetic acid surrogate recovery for the following samples was outside acceptance limits (high biased) on the confirmation column due to matrix interference: (460-161281-A-1-A MS) and (460-161281-A-1-B MSD). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

Refer to the QC report for details.

No other difficulties were encountered during the herbicides analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MR-9_1_1.5 (460-161306-1) and MR-9_8_9 (460-161306-2) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 07/27/2018 and analyzed on 07/29/2018.

The continuing calibration verification (CCV) analyzed in 460-540486 was outside the method criteria for the following analyte(s): Phenol, N-Nitrosodi-n-propylamine, Di-n-octyl phthalate, Bis(2-chloroethyl)ether, Bis(2-chloroethoxy)methane, Isophorone, Butyl benzyl phthalate, 2-Nitroaniline, 3-Nitroaniline, 4-Methylphenol and Hexachlorobutadiene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) associated with batch 460-540486 recovered above the upper control limit for Benzaldehyde. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The laboratory control sample (LCS) for preparation batch 460-540226 and analytical batch 460-540486 recovered outside control limits for the following analytes: 2-Methylphenol, 4-Methylphenol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether and Phenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Surrogates recoveries for the following laboratory control sample (LCS) associated with batch 460-540226 were outside the upper control limits. Sample has been reported.

The surrogate recovery for the blank associated with preparation batch 460-540226 and analytical batch 460-540486 was outside the upper control limits.

Several analytes failed the recovery criteria low for the Matrix Spike/Matrix Spike Duplicate (MS/MSD) of sample 460-161262-6 in batch 460-540486.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

METALS

Samples MR-9_1_1.5 (460-161306-1) and MR-9_8_9 (460-161306-2) were analyzed for Metals in accordance with EPA SW-846 Method 6020A. The samples were prepared on 07/29/2018 and analyzed on 07/30/2018.

Copper failed the recovery criteria low for the MS of sample 460-161317-1 in batch 460-540873. Aluminum failed the recovery criteria high.

Zinc exceeded the RPD limit for the duplicate of sample 460-161317-1.

Refer to the QC report for details.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples MR-9_1_1.5 (460-161306-1) and MR-9_8_9 (460-161306-2) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 07/31/2018.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

TOTAL CYANIDE

Samples MR-9_1_1.5 (460-161306-1) and MR-9_8_9 (460-161306-2) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The samples were prepared on 07/29/2018 and analyzed on 07/30/2018.

Cyanide, Total failed the recovery criteria high for the MS/MSD of sample 460-161216-2 in batch 460-540791.

Refer to the QC report for details.

No other difficulties were encountered during the cyanide analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples MR-9_1_1.5 (460-161306-1) and MR-9_8_9 (460-161306-2) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 07/30/2018.

Percent Moisture exceeded the RPD limit for the duplicate of sample 460-161317-3.

Refer to the QC report for details.

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

All other quality control parameters were within the acceptance limits.

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161306-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-161306-1	MR-9_1_1.5	Solid	07/26/18 14:15	07/26/18 19:00
460-161306-2	MR-9_8_9	Solid	07/26/18 14:20	07/26/18 19:00

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161306-1

Client Sample ID: MR-9_1_1.5

Lab Sample ID: 460-161306-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.014		0.0061	0.0046	mg/Kg	1	☼		8260C	Total/NA
2-Methylnaphthalene	0.034	J	0.37	0.0046	mg/Kg	1	☼		8270D	Total/NA
Acenaphthylene	0.044	J	0.37	0.0038	mg/Kg	1	☼		8270D	Total/NA
Acetophenone	0.013	J	0.37	0.0060	mg/Kg	1	☼		8270D	Total/NA
Anthracene	0.045	J	0.37	0.0042	mg/Kg	1	☼		8270D	Total/NA
Benzo[a]anthracene	0.25		0.037	0.013	mg/Kg	1	☼		8270D	Total/NA
Benzo[a]pyrene	0.31		0.037	0.0099	mg/Kg	1	☼		8270D	Total/NA
Benzo[b]fluoranthene	0.45		0.037	0.0096	mg/Kg	1	☼		8270D	Total/NA
Benzo[g,h,i]perylene	0.17	J	0.37	0.011	mg/Kg	1	☼		8270D	Total/NA
Benzo[k]fluoranthene	0.17		0.037	0.0073	mg/Kg	1	☼		8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.26	J	0.37	0.020	mg/Kg	1	☼		8270D	Total/NA
Carbazole	0.028	J	0.37	0.0043	mg/Kg	1	☼		8270D	Total/NA
Chrysene	0.28	J	0.37	0.0063	mg/Kg	1	☼		8270D	Total/NA
Dibenz(a,h)anthracene	0.053		0.037	0.016	mg/Kg	1	☼		8270D	Total/NA
Fluoranthene	0.34	J	0.37	0.0048	mg/Kg	1	☼		8270D	Total/NA
Fluorene	0.012	J	0.37	0.0050	mg/Kg	1	☼		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.19		0.037	0.014	mg/Kg	1	☼		8270D	Total/NA
Naphthalene	0.035	J	0.37	0.0064	mg/Kg	1	☼		8270D	Total/NA
Phenanthrene	0.14	J	0.37	0.0065	mg/Kg	1	☼		8270D	Total/NA
Pyrene	0.40		0.37	0.0092	mg/Kg	1	☼		8270D	Total/NA
Aluminum	6940		17.1	5.9	mg/Kg	20	☼		6020B	Total/NA
Arsenic	10.5		0.86	0.28	mg/Kg	20	☼		6020B	Total/NA
Barium	130		1.7	0.57	mg/Kg	20	☼		6020B	Total/NA
Beryllium	0.36		0.34	0.14	mg/Kg	20	☼		6020B	Total/NA
Cadmium	0.84	J	0.86	0.29	mg/Kg	20	☼		6020B	Total/NA
Calcium	69800		85.7	25.5	mg/Kg	20	☼		6020B	Total/NA
Chromium	18.4		1.7	0.51	mg/Kg	20	☼		6020B	Total/NA
Cobalt	5.6		1.7	0.52	mg/Kg	20	☼		6020B	Total/NA
Copper	58.6		1.7	0.49	mg/Kg	20	☼		6020B	Total/NA
Iron	16600		51.4	18.0	mg/Kg	20	☼		6020B	Total/NA
Lead	134		0.51	0.16	mg/Kg	20	☼		6020B	Total/NA
Magnesium	22000		85.7	23.8	mg/Kg	20	☼		6020B	Total/NA
Manganese	194		3.4	1.0	mg/Kg	20	☼		6020B	Total/NA
Nickel	19.6		1.7	0.56	mg/Kg	20	☼		6020B	Total/NA
Potassium	1860		85.7	30.9	mg/Kg	20	☼		6020B	Total/NA
Selenium	0.61	J	4.3	0.25	mg/Kg	20	☼		6020B	Total/NA
Sodium	745		85.7	26.8	mg/Kg	20	☼		6020B	Total/NA
Thallium	0.30	J	0.34	0.11	mg/Kg	20	☼		6020B	Total/NA
Vanadium	32.7		1.7	0.49	mg/Kg	20	☼		6020B	Total/NA
Zinc	144		6.9	3.3	mg/Kg	20	☼		6020B	Total/NA
Mercury	0.20		0.019	0.011	mg/Kg	1	☼		7471B	Total/NA
Cyanide, Total	0.071	J	0.24	0.063	mg/Kg	1	☼		9012B	Total/NA

Client Sample ID: MR-9_8_9

Lab Sample ID: 460-161306-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0043	J	0.0050	0.0011	mg/Kg	1	☼		8260C	Total/NA
Acetone	0.023		0.0050	0.0038	mg/Kg	1	☼		8260C	Total/NA
Carbon disulfide	0.00074	J	0.0010	0.00027	mg/Kg	1	☼		8260C	Total/NA
Methylene Chloride	0.00032	J B	0.0010	0.00016	mg/Kg	1	☼		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161306-1

Client Sample ID: MR-9_8_9 (Continued)

Lab Sample ID: 460-161306-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.0022		0.0010	0.00062	mg/Kg	1	☼	8260C	Total/NA
Benzo[a]pyrene	0.024	J	0.035	0.0095	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.045		0.035	0.0092	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.031	J	0.35	0.010	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	1.0		0.35	0.019	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.028	J	0.35	0.0046	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.018	J	0.35	0.0062	mg/Kg	1	☼	8270D	Total/NA
Aluminum	4960		16.8	5.8	mg/Kg	20	☼	6020B	Total/NA
Arsenic	1.8		0.84	0.27	mg/Kg	20	☼	6020B	Total/NA
Barium	53.5		1.7	0.56	mg/Kg	20	☼	6020B	Total/NA
Beryllium	0.14	J	0.34	0.14	mg/Kg	20	☼	6020B	Total/NA
Calcium	141000		84.1	25.0	mg/Kg	20	☼	6020B	Total/NA
Chromium	10.7		1.7	0.50	mg/Kg	20	☼	6020B	Total/NA
Cobalt	3.2		1.7	0.51	mg/Kg	20	☼	6020B	Total/NA
Copper	15.6		1.7	0.48	mg/Kg	20	☼	6020B	Total/NA
Iron	7230		50.5	17.7	mg/Kg	20	☼	6020B	Total/NA
Lead	34.0		0.50	0.16	mg/Kg	20	☼	6020B	Total/NA
Magnesium	64500		84.1	23.4	mg/Kg	20	☼	6020B	Total/NA
Manganese	129		3.4	1.0	mg/Kg	20	☼	6020B	Total/NA
Nickel	8.4		1.7	0.55	mg/Kg	20	☼	6020B	Total/NA
Potassium	2290		84.1	30.3	mg/Kg	20	☼	6020B	Total/NA
Sodium	611		84.1	26.3	mg/Kg	20	☼	6020B	Total/NA
Vanadium	17.8		1.7	0.48	mg/Kg	20	☼	6020B	Total/NA
Zinc	54.8		6.7	3.3	mg/Kg	20	☼	6020B	Total/NA
Mercury	0.033		0.017	0.010	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.094	J	0.25	0.065	mg/Kg	1	☼	9012B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Method Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161306-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
8081B	Organochlorine Pesticides (GC)	SW846	TAL EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL EDI
8151A	Herbicides (GC)	SW846	TAL EDI
6020B	Metals (ICP/MS)	SW846	TAL EDI
7471B	Mercury (CVAA)	SW846	TAL EDI
9012B	Cyanide, Total and/or Amenable	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
3050B	Preparation, Metals	SW846	TAL EDI
3546	Microwave Extraction	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI
7471B	Preparation, Mercury	SW846	TAL EDI
8151A	Extraction (Herbicides)	SW846	TAL EDI
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161306-1

Client Sample ID: MR-9_1_1.5

Date Collected: 07/26/18 14:15

Date Received: 07/26/18 19:00

Lab Sample ID: 460-161306-1

Matrix: Solid

Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0012	U	0.0012	0.00028	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
1,1,2,2-Tetrachloroethane	0.0012	U	0.0012	0.00026	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0012	U	0.0012	0.00037	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
1,1,2-Trichloroethane	0.0012	U	0.0012	0.00022	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
1,1-Dichloroethane	0.0012	U	0.0012	0.00025	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
1,1-Dichloroethene	0.0012	U	0.0012	0.00027	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
1,2,3-Trichlorobenzene	0.0012	U	0.0012	0.00022	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
1,2,4-Trichlorobenzene	0.0012	U	0.0012	0.00011	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
1,2,4-Trimethylbenzene	0.0012	U	0.0012	0.00011	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
1,2-Dibromo-3-Chloropropane	0.0012	U	0.0012	0.00056	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
1,2-Dichlorobenzene	0.0012	U	0.0012	0.00018	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
1,2-Dichloroethane	0.0012	U	0.0012	0.00036	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
1,2-Dichloropropane	0.0012	U	0.0012	0.00052	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
1,3,5-Trimethylbenzene	0.0012	U	0.0012	0.00014	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
1,3-Dichlorobenzene	0.0012	U	0.0012	0.00019	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
1,4-Dichlorobenzene	0.0012	U	0.0012	0.00012	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
1,4-Dioxane	0.024	U	0.024	0.011	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
2-Butanone (MEK)	0.0061	U	0.0061	0.0014	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
2-Hexanone	0.0061	U	0.0061	0.00095	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
4-Methyl-2-pentanone (MIBK)	0.0061	U	0.0061	0.00081	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Acetone	0.014		0.0061	0.0046	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Benzene	0.0012	U	0.0012	0.00031	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Bromoform	0.0012	U	0.0012	0.00052	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Bromomethane	0.0012	U	0.0012	0.00058	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Carbon disulfide	0.0012	U	0.0012	0.00032	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Carbon tetrachloride	0.0012	U	0.0012	0.00022	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Chlorobenzene	0.0012	U	0.0012	0.00022	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Chlorobromomethane	0.0012	U	0.0012	0.00034	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Chlorodibromomethane	0.0012	U	0.0012	0.00024	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Chloroethane	0.0012	U	0.0012	0.00064	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Chloroform	0.0012	U	0.0012	0.00039	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Chloromethane	0.0012	U	0.0012	0.00053	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
cis-1,2-Dichloroethene	0.0012	U	0.0012	0.00019	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
cis-1,3-Dichloropropene	0.0012	U	0.0012	0.00033	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Cyclohexane	0.0012	U	0.0012	0.00027	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Dichlorobromomethane	0.0012	U	0.0012	0.00031	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Dichlorodifluoromethane	0.0012	U	0.0012	0.00041	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Ethylbenzene	0.0012	U	0.0012	0.00024	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Ethylene Dibromide	0.0012	U	0.0012	0.00022	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Isopropylbenzene	0.0012	U	0.0012	0.00015	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Methyl acetate	0.0061	U	0.0061	0.0052	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Methyl tert-butyl ether	0.0012	U	0.0012	0.00015	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Methylcyclohexane	0.0012	U	0.0012	0.00020	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Methylene Chloride	0.0012	U	0.0012	0.00020	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
m-Xylene & p-Xylene	0.0012	U	0.0012	0.00021	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
n-Butylbenzene	0.0012	U	0.0012	0.00017	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
N-Propylbenzene	0.0012	U	0.0012	0.00021	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
o-Xylene	0.0012	U	0.0012	0.00012	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
sec-Butylbenzene	0.0012	U	0.0012	0.00011	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161306-1

Client Sample ID: MR-9_1_1.5

Lab Sample ID: 460-161306-1

Date Collected: 07/26/18 14:15

Matrix: Solid

Date Received: 07/26/18 19:00

Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.0012	U	0.0012	0.00015	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
tert-Butylbenzene	0.0012	U	0.0012	0.00015	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Tetrachloroethene	0.0012	U	0.0012	0.00017	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Toluene	0.0012	U	0.0012	0.00076	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
trans-1,2-Dichloroethene	0.0012	U	0.0012	0.00030	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
trans-1,3-Dichloropropene	0.0012	U	0.0012	0.00032	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Trichloroethene	0.0012	U	0.0012	0.00018	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Trichlorofluoromethane	0.0012	U	0.0012	0.00050	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Vinyl chloride	0.0012	U	0.0012	0.00067	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1
Xylenes, Total	0.0024	U	0.0024	0.00031	mg/Kg	☼	07/27/18 06:37	07/29/18 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		78 - 135	07/27/18 06:37	07/29/18 15:19	1
4-Bromofluorobenzene	96		67 - 126	07/27/18 06:37	07/29/18 15:19	1
Dibromofluoromethane (Surr)	100		61 - 149	07/27/18 06:37	07/29/18 15:19	1
Toluene-d8 (Surr)	98		73 - 121	07/27/18 06:37	07/29/18 15:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.37	U	0.37	0.0049	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
1,2,4,5-Tetrachlorobenzene	0.37	U	0.37	0.0049	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
2,2'-oxybis[1-chloropropane]	0.37	U	0.37	0.0067	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
2,3,4,6-Tetrachlorophenol	0.37	U	0.37	0.025	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
2,4,5-Trichlorophenol	0.37	U	0.37	0.012	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.019	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
2,4-Dichlorophenol	0.15	U	0.15	0.0078	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
2,4-Dimethylphenol	0.37	U	0.37	0.016	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
2,4-Dinitrophenol	0.30	U	0.30	0.18	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
2,4-Dinitrotoluene	0.075	U	0.075	0.019	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
2,6-Dinitrotoluene	0.075	U	0.075	0.012	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
2-Chloronaphthalene	0.37	U	0.37	0.017	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
2-Chlorophenol	0.37	U	0.37	0.0052	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
2-Methylnaphthalene	0.034	J	0.37	0.0046	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
2-Methylphenol	0.37	U *	0.37	0.0060	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
2-Nitroaniline	0.37	U	0.37	0.014	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
2-Nitrophenol	0.37	U	0.37	0.012	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
3 & 4 Methylphenol	0.37	U *	0.37	0.0063	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.056	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
3-Nitroaniline	0.37	U	0.37	0.020	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
4,6-Dinitro-2-methylphenol	0.30	U	0.30	0.060	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
4-Bromophenyl phenyl ether	0.37	U	0.37	0.0048	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
4-Chloro-3-methylphenol	0.37	U	0.37	0.0062	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
4-Chloroaniline	0.37	U	0.37	0.026	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
4-Chlorophenyl phenyl ether	0.37	U	0.37	0.0059	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
4-Methylphenol	0.37	U *	0.37	0.0063	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
4-Nitroaniline	0.37	U	0.37	0.014	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
4-Nitrophenol	0.75	U	0.75	0.060	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Acenaphthene	0.37	U	0.37	0.027	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Acenaphthylene	0.044	J	0.37	0.0038	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Acetophenone	0.013	J	0.37	0.0060	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161306-1

Client Sample ID: MR-9_1_1.5

Lab Sample ID: 460-161306-1

Date Collected: 07/26/18 14:15

Matrix: Solid

Date Received: 07/26/18 19:00

Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.045	J	0.37	0.0042	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Atrazine	0.15	U	0.15	0.0094	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Benzaldehyde	0.37	U	0.37	0.016	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Benzo[a]anthracene	0.25		0.037	0.013	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Benzo[a]pyrene	0.31		0.037	0.0099	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Benzo[b]fluoranthene	0.45		0.037	0.0096	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Benzo[g,h,i]perylene	0.17	J	0.37	0.011	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Benzo[k]fluoranthene	0.17		0.037	0.0073	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Bis(2-chloroethoxy)methane	0.37	U *	0.37	0.013	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Bis(2-chloroethyl)ether	0.037	U *	0.037	0.0045	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Bis(2-ethylhexyl) phthalate	0.26	J	0.37	0.020	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Butyl benzyl phthalate	0.37	U	0.37	0.017	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Caprolactam	0.37	U	0.37	0.022	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Carbazole	0.028	J	0.37	0.0043	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Chrysene	0.28	J	0.37	0.0063	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Dibenz(a,h)anthracene	0.053		0.037	0.016	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Dibenzofuran	0.37	U	0.37	0.0052	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Diethyl phthalate	0.37	U	0.37	0.0054	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Dimethyl phthalate	0.37	U	0.37	0.0045	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Di-n-butyl phthalate	0.37	U	0.37	0.065	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Di-n-octyl phthalate	0.37	U	0.37	0.020	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Fluoranthene	0.34	J	0.37	0.0048	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Fluorene	0.012	J	0.37	0.0050	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Hexachlorobenzene	0.037	U	0.037	0.0054	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Hexachlorobutadiene	0.075	U	0.075	0.0079	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Hexachlorocyclopentadiene	0.37	U	0.37	0.033	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Hexachloroethane	0.037	U	0.037	0.0057	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Indeno[1,2,3-cd]pyrene	0.19		0.037	0.014	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Isophorone	0.15	U	0.15	0.0098	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Naphthalene	0.035	J	0.37	0.0064	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Nitrobenzene	0.037	U	0.037	0.0089	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
N-Nitrosodi-n-propylamine	0.037	U	0.037	0.0059	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
N-Nitrosodiphenylamine	0.37	U	0.37	0.0071	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Pentachlorophenol	0.30	U	0.30	0.076	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Phenanthrene	0.14	J	0.37	0.0065	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Phenol	0.37	U *	0.37	0.0055	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1
Pyrene	0.40		0.37	0.0092	mg/Kg	☼	07/27/18 10:22	07/29/18 08:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	56		10 - 103	07/27/18 10:22	07/29/18 08:55	1
2-Fluorobiphenyl	73		38 - 95	07/27/18 10:22	07/29/18 08:55	1
2-Fluorophenol (Surr)	82		25 - 92	07/27/18 10:22	07/29/18 08:55	1
Nitrobenzene-d5 (Surr)	82		37 - 94	07/27/18 10:22	07/29/18 08:55	1
Phenol-d5 (Surr)	90		32 - 91	07/27/18 10:22	07/29/18 08:55	1
Terphenyl-d14 (Surr)	68		24 - 109	07/27/18 10:22	07/29/18 08:55	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0075	U	0.0075	0.0013	mg/Kg	☼	07/27/18 10:09	07/28/18 00:12	1
4,4'-DDE	0.0075	U	0.0075	0.00089	mg/Kg	☼	07/27/18 10:09	07/28/18 00:12	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161306-1

Client Sample ID: MR-9_1_1.5

Date Collected: 07/26/18 14:15

Date Received: 07/26/18 19:00

Lab Sample ID: 460-161306-1

Matrix: Solid

Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	0.0075	U	0.0075	0.0014	mg/Kg	☼	07/27/18 10:09	07/28/18 00:12	1
Aldrin	0.0075	U	0.0075	0.0011	mg/Kg	☼	07/27/18 10:09	07/28/18 00:12	1
alpha-BHC	0.0022	U	0.0022	0.00076	mg/Kg	☼	07/27/18 10:09	07/28/18 00:12	1
beta-BHC	0.0022	U	0.0022	0.00084	mg/Kg	☼	07/27/18 10:09	07/28/18 00:12	1
Chlordane (technical)	0.075	U	0.075	0.018	mg/Kg	☼	07/27/18 10:09	07/28/18 00:12	1
cis-Chlordane	0.0075	U	0.0075	0.0012	mg/Kg	☼	07/27/18 10:09	07/28/18 00:12	1
delta-BHC	0.0022	U	0.0022	0.00046	mg/Kg	☼	07/27/18 10:09	07/28/18 00:12	1
Dieldrin	0.0022	U	0.0022	0.00098	mg/Kg	☼	07/27/18 10:09	07/28/18 00:12	1
Endosulfan I	0.0075	U	0.0075	0.0011	mg/Kg	☼	07/27/18 10:09	07/28/18 00:12	1
Endosulfan II	0.0075	U	0.0075	0.0019	mg/Kg	☼	07/27/18 10:09	07/28/18 00:12	1
Endosulfan sulfate	0.0075	U	0.0075	0.00094	mg/Kg	☼	07/27/18 10:09	07/28/18 00:12	1
Endrin	0.0075	U	0.0075	0.0011	mg/Kg	☼	07/27/18 10:09	07/28/18 00:12	1
Endrin aldehyde	0.0075	U	0.0075	0.0018	mg/Kg	☼	07/27/18 10:09	07/28/18 00:12	1
Endrin ketone	0.0075	U	0.0075	0.0015	mg/Kg	☼	07/27/18 10:09	07/28/18 00:12	1
gamma-BHC (Lindane)	0.0022	U	0.0022	0.00070	mg/Kg	☼	07/27/18 10:09	07/28/18 00:12	1
Heptachlor	0.0075	U	0.0075	0.00089	mg/Kg	☼	07/27/18 10:09	07/28/18 00:12	1
Heptachlor epoxide	0.0075	U	0.0075	0.0011	mg/Kg	☼	07/27/18 10:09	07/28/18 00:12	1
Methoxychlor	0.0075	U	0.0075	0.0017	mg/Kg	☼	07/27/18 10:09	07/28/18 00:12	1
Toxaphene	0.075	U	0.075	0.027	mg/Kg	☼	07/27/18 10:09	07/28/18 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	89		69 - 150	07/27/18 10:09	07/28/18 00:12	1
Tetrachloro-m-xylene	115		74 - 150	07/27/18 10:09	07/28/18 00:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.075	U	0.075	0.010	mg/Kg	☼	07/27/18 10:00	07/28/18 10:18	1
Aroclor 1221	0.075	U	0.075	0.010	mg/Kg	☼	07/27/18 10:00	07/28/18 10:18	1
Aroclor 1232	0.075	U	0.075	0.010	mg/Kg	☼	07/27/18 10:00	07/28/18 10:18	1
Aroclor 1242	0.075	U	0.075	0.010	mg/Kg	☼	07/27/18 10:00	07/28/18 10:18	1
Aroclor 1248	0.075	U	0.075	0.010	mg/Kg	☼	07/27/18 10:00	07/28/18 10:18	1
Aroclor 1254	0.075	U	0.075	0.010	mg/Kg	☼	07/27/18 10:00	07/28/18 10:18	1
Aroclor 1260	0.075	U	0.075	0.010	mg/Kg	☼	07/27/18 10:00	07/28/18 10:18	1
Aroclor-1262	0.075	U	0.075	0.010	mg/Kg	☼	07/27/18 10:00	07/28/18 10:18	1
Aroclor 1268	0.075	U	0.075	0.010	mg/Kg	☼	07/27/18 10:00	07/28/18 10:18	1
Polychlorinated biphenyls, Total	0.075	U	0.075	0.010	mg/Kg	☼	07/27/18 10:00	07/28/18 10:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	104		53 - 150	07/27/18 10:00	07/28/18 10:18	1
DCB Decachlorobiphenyl	96		53 - 150	07/27/18 10:00	07/28/18 10:18	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.037	U	0.037	0.0079	mg/Kg	☼	07/28/18 04:48	07/29/18 12:33	1
2,4-D	0.037	U	0.037	0.014	mg/Kg	☼	07/28/18 04:48	07/29/18 12:33	1
Silvex (2,4,5-TP)	0.037	U	0.037	0.0039	mg/Kg	☼	07/28/18 04:48	07/29/18 12:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	133		80 - 150	07/28/18 04:48	07/29/18 12:33	1
2,4-Dichlorophenylacetic acid	139		80 - 150	07/28/18 04:48	07/29/18 12:33	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161306-1

Client Sample ID: MR-9_1_1.5

Date Collected: 07/26/18 14:15

Date Received: 07/26/18 19:00

Lab Sample ID: 460-161306-1

Matrix: Solid

Percent Solids: 89.1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6940		17.1	5.9	mg/Kg	☼	07/29/18 16:25	07/30/18 18:53	20
Antimony	0.86	U	0.86	0.25	mg/Kg	☼	07/29/18 16:25	07/30/18 18:53	20
Arsenic	10.5		0.86	0.28	mg/Kg	☼	07/29/18 16:25	07/30/18 18:53	20
Barium	130		1.7	0.57	mg/Kg	☼	07/29/18 16:25	07/30/18 18:53	20
Beryllium	0.36		0.34	0.14	mg/Kg	☼	07/29/18 16:25	07/30/18 18:53	20
Cadmium	0.84	J	0.86	0.29	mg/Kg	☼	07/29/18 16:25	07/30/18 18:53	20
Calcium	69800		85.7	25.5	mg/Kg	☼	07/29/18 16:25	07/30/18 18:53	20
Chromium	18.4		1.7	0.51	mg/Kg	☼	07/29/18 16:25	07/30/18 18:53	20
Cobalt	5.6		1.7	0.52	mg/Kg	☼	07/29/18 16:25	07/30/18 18:53	20
Copper	58.6		1.7	0.49	mg/Kg	☼	07/29/18 16:25	07/30/18 18:53	20
Iron	16600		51.4	18.0	mg/Kg	☼	07/29/18 16:25	07/30/18 18:53	20
Lead	134		0.51	0.16	mg/Kg	☼	07/29/18 16:25	07/30/18 18:53	20
Magnesium	22000		85.7	23.8	mg/Kg	☼	07/29/18 16:25	07/30/18 18:53	20
Manganese	194		3.4	1.0	mg/Kg	☼	07/29/18 16:25	07/30/18 18:53	20
Nickel	19.6		1.7	0.56	mg/Kg	☼	07/29/18 16:25	07/30/18 18:53	20
Potassium	1860		85.7	30.9	mg/Kg	☼	07/29/18 16:25	07/30/18 18:53	20
Selenium	0.61	J	4.3	0.25	mg/Kg	☼	07/29/18 16:25	07/30/18 18:53	20
Silver	0.86	U	0.86	0.53	mg/Kg	☼	07/29/18 16:25	07/30/18 18:53	20
Sodium	745		85.7	26.8	mg/Kg	☼	07/29/18 16:25	07/30/18 18:53	20
Thallium	0.30	J	0.34	0.11	mg/Kg	☼	07/29/18 16:25	07/30/18 18:53	20
Vanadium	32.7		1.7	0.49	mg/Kg	☼	07/29/18 16:25	07/30/18 18:53	20
Zinc	144		6.9	3.3	mg/Kg	☼	07/29/18 16:25	07/30/18 18:53	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.019	0.011	mg/Kg	☼	07/31/18 04:50	07/31/18 21:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.071	J	0.24	0.063	mg/Kg	☼	07/29/18 13:46	07/30/18 13:03	1

Client Sample ID: MR-9_8_9

Date Collected: 07/26/18 14:20

Date Received: 07/26/18 19:00

Lab Sample ID: 460-161306-2

Matrix: Solid

Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00022	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.000092	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.000094	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00014	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161306-1

Client Sample ID: MR-9_8_9

Date Collected: 07/26/18 14:20

Date Received: 07/26/18 19:00

Lab Sample ID: 460-161306-2

Matrix: Solid

Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00011	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00016	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00010	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
1,4-Dioxane	0.020	U	0.020	0.0092	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
2-Butanone (MEK)	0.0043	J	0.0050	0.0011	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
2-Hexanone	0.0050	U	0.0050	0.00078	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.00066	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Acetone	0.023		0.0050	0.0038	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Bromoform	0.0010	U	0.0010	0.00042	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Bromomethane	0.0010	U	0.0010	0.00047	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Carbon disulfide	0.00074	J	0.0010	0.00027	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Carbon tetrachloride	0.0010	U	0.0010	0.00018	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Chloroform	0.0010	U	0.0010	0.00032	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Chloromethane	0.0010	U	0.0010	0.00043	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00015	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Isopropylbenzene	0.0010	U	0.0010	0.00013	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00012	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Methylcyclohexane	0.0010	U	0.0010	0.00016	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Methylene Chloride	0.00032	J B	0.0010	0.00016	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
n-Butylbenzene	0.0010	U	0.0010	0.00014	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
N-Propylbenzene	0.0010	U	0.0010	0.00017	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
o-Xylene	0.0010	U	0.0010	0.000095	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
sec-Butylbenzene	0.0010	U	0.0010	0.000088	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Styrene	0.0010	U	0.0010	0.00012	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
tert-Butylbenzene	0.0010	U	0.0010	0.00012	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Tetrachloroethene	0.0010	U	0.0010	0.00014	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Toluene	0.0022		0.0010	0.00062	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Trichloroethene	0.0010	U	0.0010	0.00014	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1
Xylenes, Total	0.0020	U	0.0020	0.00025	mg/Kg	☼	07/27/18 06:38	07/29/18 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		78 - 135	07/27/18 06:38	07/29/18 15:43	1
4-Bromofluorobenzene	95		67 - 126	07/27/18 06:38	07/29/18 15:43	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161306-1

Client Sample ID: MR-9_8_9

Date Collected: 07/26/18 14:20

Date Received: 07/26/18 19:00

Lab Sample ID: 460-161306-2

Matrix: Solid

Percent Solids: 92.9

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		61 - 149	07/27/18 06:38	07/29/18 15:43	1
Toluene-d8 (Surr)	96		73 - 121	07/27/18 06:38	07/29/18 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.35	U	0.35	0.0047	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
1,2,4,5-Tetrachlorobenzene	0.35	U	0.35	0.0047	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
2,2'-oxybis[1-chloropropane]	0.35	U	0.35	0.0064	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
2,3,4,6-Tetrachlorophenol	0.35	U	0.35	0.024	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
2,4,5-Trichlorophenol	0.35	U	0.35	0.012	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.018	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
2,4-Dichlorophenol	0.14	U	0.14	0.0075	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
2,4-Dimethylphenol	0.35	U	0.35	0.016	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
2,4-Dinitrophenol	0.29	U	0.29	0.17	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
2,4-Dinitrotoluene	0.072	U	0.072	0.018	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
2,6-Dinitrotoluene	0.072	U	0.072	0.012	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
2-Chloronaphthalene	0.35	U	0.35	0.016	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
2-Chlorophenol	0.35	U	0.35	0.0050	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
2-Methylnaphthalene	0.35	U	0.35	0.0044	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
2-Methylphenol	0.35	U *	0.35	0.0057	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
2-Nitroaniline	0.35	U	0.35	0.013	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
2-Nitrophenol	0.35	U	0.35	0.011	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
3 & 4 Methylphenol	0.35	U *	0.35	0.0061	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
3,3'-Dichlorobenzidine	0.14	U	0.14	0.054	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
3-Nitroaniline	0.35	U	0.35	0.019	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
4,6-Dinitro-2-methylphenol	0.29	U	0.29	0.058	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
4-Bromophenyl phenyl ether	0.35	U	0.35	0.0046	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
4-Chloro-3-methylphenol	0.35	U	0.35	0.0059	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
4-Chloroaniline	0.35	U	0.35	0.025	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
4-Chlorophenyl phenyl ether	0.35	U	0.35	0.0056	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
4-Methylphenol	0.35	U *	0.35	0.0061	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
4-Nitroaniline	0.35	U	0.35	0.013	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
4-Nitrophenol	0.72	U	0.72	0.058	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Acenaphthene	0.35	U	0.35	0.026	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Acenaphthylene	0.35	U	0.35	0.0037	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Acetophenone	0.35	U	0.35	0.0057	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Anthracene	0.35	U	0.35	0.0040	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Atrazine	0.14	U	0.14	0.0090	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Benzaldehyde	0.35	U	0.35	0.015	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Benzo[a]anthracene	0.035	U	0.035	0.012	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Benzo[a]pyrene	0.024	J	0.035	0.0095	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Benzo[b]fluoranthene	0.045		0.035	0.0092	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Benzo[g,h,i]perylene	0.031	J	0.35	0.010	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Benzo[k]fluoranthene	0.035	U	0.035	0.0070	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Bis(2-chloroethoxy)methane	0.35	U *	0.35	0.012	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Bis(2-chloroethyl)ether	0.035	U *	0.035	0.0043	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Bis(2-ethylhexyl) phthalate	1.0		0.35	0.019	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Butyl benzyl phthalate	0.35	U	0.35	0.017	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Caprolactam	0.35	U	0.35	0.021	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161306-1

Client Sample ID: MR-9_8_9

Date Collected: 07/26/18 14:20

Date Received: 07/26/18 19:00

Lab Sample ID: 460-161306-2

Matrix: Solid

Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	0.35	U	0.35	0.0042	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Chrysene	0.35	U	0.35	0.0060	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Dibenz(a,h)anthracene	0.035	U	0.035	0.015	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Dibenzofuran	0.35	U	0.35	0.0050	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Diethyl phthalate	0.35	U	0.35	0.0052	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Dimethyl phthalate	0.35	U	0.35	0.0043	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Di-n-butyl phthalate	0.35	U	0.35	0.063	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Di-n-octyl phthalate	0.35	U	0.35	0.019	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Fluoranthene	0.028	J	0.35	0.0046	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Fluorene	0.35	U	0.35	0.0048	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Hexachlorobenzene	0.035	U	0.035	0.0052	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Hexachlorobutadiene	0.072	U	0.072	0.0076	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Hexachlorocyclopentadiene	0.35	U	0.35	0.031	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Hexachloroethane	0.035	U	0.035	0.0055	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Indeno[1,2,3-cd]pyrene	0.035	U	0.035	0.014	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Isophorone	0.14	U	0.14	0.0094	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Naphthalene	0.35	U	0.35	0.0061	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Nitrobenzene	0.035	U	0.035	0.0085	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
N-Nitrosodi-n-propylamine	0.035	U	0.035	0.0057	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
N-Nitrosodiphenylamine	0.35	U	0.35	0.0068	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Pentachlorophenol	0.29	U	0.29	0.073	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Phenanthrene	0.018	J	0.35	0.0062	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Phenol	0.35	U *	0.35	0.0053	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1
Pyrene	0.35	U	0.35	0.0088	mg/Kg	☼	07/27/18 10:22	07/29/18 06:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	46		10 - 103	07/27/18 10:22	07/29/18 06:38	1
2-Fluorobiphenyl	58		38 - 95	07/27/18 10:22	07/29/18 06:38	1
2-Fluorophenol (Surr)	68		25 - 92	07/27/18 10:22	07/29/18 06:38	1
Nitrobenzene-d5 (Surr)	65		37 - 94	07/27/18 10:22	07/29/18 06:38	1
Phenol-d5 (Surr)	74		32 - 91	07/27/18 10:22	07/29/18 06:38	1
Terphenyl-d14 (Surr)	56		24 - 109	07/27/18 10:22	07/29/18 06:38	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0072	U	0.0072	0.0012	mg/Kg	☼	07/27/18 10:09	07/28/18 00:25	1
4,4'-DDE	0.0072	U	0.0072	0.00085	mg/Kg	☼	07/27/18 10:09	07/28/18 00:25	1
4,4'-DDT	0.0072	U	0.0072	0.0013	mg/Kg	☼	07/27/18 10:09	07/28/18 00:25	1
Aldrin	0.0072	U	0.0072	0.0011	mg/Kg	☼	07/27/18 10:09	07/28/18 00:25	1
alpha-BHC	0.0021	U	0.0021	0.00073	mg/Kg	☼	07/27/18 10:09	07/28/18 00:25	1
beta-BHC	0.0021	U	0.0021	0.00081	mg/Kg	☼	07/27/18 10:09	07/28/18 00:25	1
Chlordane (technical)	0.072	U	0.072	0.017	mg/Kg	☼	07/27/18 10:09	07/28/18 00:25	1
cis-Chlordane	0.0072	U	0.0072	0.0011	mg/Kg	☼	07/27/18 10:09	07/28/18 00:25	1
delta-BHC	0.0021	U	0.0021	0.00044	mg/Kg	☼	07/27/18 10:09	07/28/18 00:25	1
Dieldrin	0.0021	U	0.0021	0.00093	mg/Kg	☼	07/27/18 10:09	07/28/18 00:25	1
Endosulfan I	0.0072	U	0.0072	0.0011	mg/Kg	☼	07/27/18 10:09	07/28/18 00:25	1
Endosulfan II	0.0072	U	0.0072	0.0018	mg/Kg	☼	07/27/18 10:09	07/28/18 00:25	1
Endosulfan sulfate	0.0072	U	0.0072	0.00090	mg/Kg	☼	07/27/18 10:09	07/28/18 00:25	1
Endrin	0.0072	U	0.0072	0.0010	mg/Kg	☼	07/27/18 10:09	07/28/18 00:25	1
Endrin aldehyde	0.0072	U	0.0072	0.0017	mg/Kg	☼	07/27/18 10:09	07/28/18 00:25	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161306-1

Client Sample ID: MR-9_8_9

Date Collected: 07/26/18 14:20

Date Received: 07/26/18 19:00

Lab Sample ID: 460-161306-2

Matrix: Solid

Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	0.0072	U	0.0072	0.0014	mg/Kg	☼	07/27/18 10:09	07/28/18 00:25	1
gamma-BHC (Lindane)	0.0021	U	0.0021	0.00067	mg/Kg	☼	07/27/18 10:09	07/28/18 00:25	1
Heptachlor	0.0072	U	0.0072	0.00085	mg/Kg	☼	07/27/18 10:09	07/28/18 00:25	1
Heptachlor epoxide	0.0072	U	0.0072	0.0011	mg/Kg	☼	07/27/18 10:09	07/28/18 00:25	1
Methoxychlor	0.0072	U	0.0072	0.0016	mg/Kg	☼	07/27/18 10:09	07/28/18 00:25	1
Toxaphene	0.072	U	0.072	0.026	mg/Kg	☼	07/27/18 10:09	07/28/18 00:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	89		69 - 150	07/27/18 10:09	07/28/18 00:25	1
Tetrachloro-m-xylene	108		74 - 150	07/27/18 10:09	07/28/18 00:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.072	U	0.072	0.0096	mg/Kg	☼	07/27/18 10:00	07/28/18 10:34	1
Aroclor 1221	0.072	U	0.072	0.0096	mg/Kg	☼	07/27/18 10:00	07/28/18 10:34	1
Aroclor 1232	0.072	U	0.072	0.0096	mg/Kg	☼	07/27/18 10:00	07/28/18 10:34	1
Aroclor 1242	0.072	U	0.072	0.0096	mg/Kg	☼	07/27/18 10:00	07/28/18 10:34	1
Aroclor 1248	0.072	U	0.072	0.0096	mg/Kg	☼	07/27/18 10:00	07/28/18 10:34	1
Aroclor 1254	0.072	U	0.072	0.0099	mg/Kg	☼	07/27/18 10:00	07/28/18 10:34	1
Aroclor 1260	0.072	U	0.072	0.0099	mg/Kg	☼	07/27/18 10:00	07/28/18 10:34	1
Aroclor-1262	0.072	U	0.072	0.0099	mg/Kg	☼	07/27/18 10:00	07/28/18 10:34	1
Aroclor 1268	0.072	U	0.072	0.0099	mg/Kg	☼	07/27/18 10:00	07/28/18 10:34	1
Polychlorinated biphenyls, Total	0.072	U	0.072	0.0099	mg/Kg	☼	07/27/18 10:00	07/28/18 10:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	93		53 - 150	07/27/18 10:00	07/28/18 10:34	1
DCB Decachlorobiphenyl	84		53 - 150	07/27/18 10:00	07/28/18 10:34	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.036	U	0.036	0.0076	mg/Kg	☼	07/28/18 04:48	07/29/18 12:47	1
2,4-D	0.036	U	0.036	0.013	mg/Kg	☼	07/28/18 04:48	07/29/18 12:47	1
Silvex (2,4,5-TP)	0.036	U	0.036	0.0037	mg/Kg	☼	07/28/18 04:48	07/29/18 12:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	128		80 - 150	07/28/18 04:48	07/29/18 12:47	1
2,4-Dichlorophenylacetic acid	132		80 - 150	07/28/18 04:48	07/29/18 12:47	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4960		16.8	5.8	mg/Kg	☼	07/29/18 16:25	07/30/18 19:03	20
Antimony	0.84	U	0.84	0.25	mg/Kg	☼	07/29/18 16:25	07/30/18 19:03	20
Arsenic	1.8		0.84	0.27	mg/Kg	☼	07/29/18 16:25	07/30/18 19:03	20
Barium	53.5		1.7	0.56	mg/Kg	☼	07/29/18 16:25	07/30/18 19:03	20
Beryllium	0.14	J	0.34	0.14	mg/Kg	☼	07/29/18 16:25	07/30/18 19:03	20
Cadmium	0.84	U	0.84	0.28	mg/Kg	☼	07/29/18 16:25	07/30/18 19:03	20
Calcium	141000		84.1	25.0	mg/Kg	☼	07/29/18 16:25	07/30/18 19:03	20
Chromium	10.7		1.7	0.50	mg/Kg	☼	07/29/18 16:25	07/30/18 19:03	20
Cobalt	3.2		1.7	0.51	mg/Kg	☼	07/29/18 16:25	07/30/18 19:03	20
Copper	15.6		1.7	0.48	mg/Kg	☼	07/29/18 16:25	07/30/18 19:03	20
Iron	7230		50.5	17.7	mg/Kg	☼	07/29/18 16:25	07/30/18 19:03	20

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161306-1

Client Sample ID: MR-9_8_9

Date Collected: 07/26/18 14:20

Date Received: 07/26/18 19:00

Lab Sample ID: 460-161306-2

Matrix: Solid

Percent Solids: 92.9

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	34.0		0.50	0.16	mg/Kg	☼	07/29/18 16:25	07/30/18 19:03	20
Magnesium	64500		84.1	23.4	mg/Kg	☼	07/29/18 16:25	07/30/18 19:03	20
Manganese	129		3.4	1.0	mg/Kg	☼	07/29/18 16:25	07/30/18 19:03	20
Nickel	8.4		1.7	0.55	mg/Kg	☼	07/29/18 16:25	07/30/18 19:03	20
Potassium	2290		84.1	30.3	mg/Kg	☼	07/29/18 16:25	07/30/18 19:03	20
Selenium	4.2	U	4.2	0.24	mg/Kg	☼	07/29/18 16:25	07/30/18 19:03	20
Silver	0.84	U	0.84	0.52	mg/Kg	☼	07/29/18 16:25	07/30/18 19:03	20
Sodium	611		84.1	26.3	mg/Kg	☼	07/29/18 16:25	07/30/18 19:03	20
Thallium	0.34	U	0.34	0.11	mg/Kg	☼	07/29/18 16:25	07/30/18 19:03	20
Vanadium	17.8		1.7	0.48	mg/Kg	☼	07/29/18 16:25	07/30/18 19:03	20
Zinc	54.8		6.7	3.3	mg/Kg	☼	07/29/18 16:25	07/30/18 19:03	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.017	0.010	mg/Kg	☼	07/31/18 04:50	07/31/18 21:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.094	J	0.25	0.065	mg/Kg	☼	07/29/18 13:46	07/30/18 13:04	1

ANALYTICAL REPORT

Job Number: 460-161504-1

Job Description: Taconic Inwood

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, NY 11749
Attention: Ms. Jessica Taylor

Melissa Haas

Approved for release.
Melissa Haas
Project Manager I
8/7/2018 4:30 PM

Melissa Haas, Project Manager I
777 New Durham Road, Edison, NJ, 08817
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08/07/2018

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TestAmerica Laboratories, Inc.

TestAmerica Edison 777 New Durham Road, Edison, NJ 08817
Tel (732) 549-3900 Fax (732) 549-3679 www.testamericainc.com



Job Number: 460-161504-1

Job Description: Taconic Inwood

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

A handwritten signature in dark ink that reads "Melissa Haas". The signature is written in a cursive, flowing style. Below the signature is a solid horizontal line.

Approved for release.
Melissa Haas
Project Manager I
8/7/2018 4:30 PM

Melissa Haas

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CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: Taconic Inwood

Report Number: 460-161504-1

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

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

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

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

RECEIPT

The samples were received on 07/30/2018; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.0 C.

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

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MR-14_1_1.5 (460-161504-1) and MR-14_5_6 (460-161504-2) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260C. The samples were prepared on 07/31/2018 and analyzed on 08/01/2018.

The continuing calibration verification (CCV) associated with batch 460-541139 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

No difficulties were encountered during the volatiles analysis.

All quality control parameters were within the acceptance limits.

PESTICIDES

Samples MR-14_1_1.5 (460-161504-1) and MR-14_5_6 (460-161504-2) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 07/31/2018 and analyzed on 08/01/2018.

No difficulties were encountered during the Pesticides analysis.

All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS

Samples MR-14_1_1.5 (460-161504-1) and MR-14_5_6 (460-161504-2) were analyzed for polychlorinated biphenyls in accordance with EPA SW-846 Method 8082A. The samples were prepared on 07/31/2018 and analyzed on 08/01/2018.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

CHLORINATED HERBICIDES

Samples MR-14_1_1.5 (460-161504-1) and MR-14_5_6 (460-161504-2) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared and analyzed on 07/31/2018.

No difficulties were encountered during the herbicides analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MR-14_1_1.5 (460-161504-1) and MR-14_5_6 (460-161504-2) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 07/31/2018 and analyzed on 08/01/2018.

The continuing calibration verification (CCV) associated with batch 460-541105 recovered above the upper control limit for Di-n-octyl phthalate and Hexachlorocyclopentadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for five analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 460-541046 had one analyte (Hexachlorobutadiene) outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Several analytes failed the recovery criteria low for the MS of sample 460-161493-1 in batch 460-541105.

Several analytes failed the recovery criteria low for the MSD of sample 460-161493-1 in batch 460-541105.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

METALS

Samples MR-14_1_1.5 (460-161504-1) and MR-14_5_6 (460-161504-2) were analyzed for Metals in accordance with EPA SW-846 Method 6020A. The samples were prepared on 08/05/2018 and analyzed on 08/06/2018.

No difficulties were encountered during the Metals analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples MR-14_1_1.5 (460-161504-1) and MR-14_5_6 (460-161504-2) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 08/02/2018.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

TOTAL CYANIDE

Samples MR-14_1_1.5 (460-161504-1) and MR-14_5_6 (460-161504-2) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The samples were prepared and analyzed on 08/01/2018.

Cyanide, Total failed the recovery criteria high for the MS of sample MR-14_1_1.5MS (460-161504-1) in batch 460-541390.

Cyanide, Total failed the recovery criteria high for the MSD of sample MR-14_1_1.5MSD (460-161504-1) in batch 460-541390.

Refer to the QC report for details.

No other difficulties were encountered during the cyanide analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples MR-14_1_1.5 (460-161504-1) and MR-14_5_6 (460-161504-2) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 07/31/2018 and 08/01/2018.

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

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161504-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-161504-1	MR-14_1_1.5	Solid	07/30/18 08:45	07/30/18 19:00
460-161504-2	MR-14_5_6	Solid	07/30/18 08:55	07/30/18 19:00

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161504-1

Client Sample ID: MR-14_1_1.5

Lab Sample ID: 460-161504-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0026	J	0.0053	0.0012	mg/Kg	1	☼		8260C	Total/NA
Acetone	0.0069		0.0053	0.0040	mg/Kg	1	☼		8260C	Total/NA
Tetrachloroethene	0.00033	J	0.0011	0.00015	mg/Kg	1	☼		8260C	Total/NA
Trichloroethene	0.00016	J	0.0011	0.00015	mg/Kg	1	☼		8260C	Total/NA
2-Methylnaphthalene	0.017	J	0.38	0.0048	mg/Kg	1	☼		8270D	Total/NA
Acenaphthene	0.043	J	0.38	0.028	mg/Kg	1	☼		8270D	Total/NA
Acenaphthylene	0.025	J	0.38	0.0040	mg/Kg	1	☼		8270D	Total/NA
Anthracene	0.14	J	0.38	0.0043	mg/Kg	1	☼		8270D	Total/NA
Benzo[a]anthracene	0.71		0.038	0.013	mg/Kg	1	☼		8270D	Total/NA
Benzo[a]pyrene	0.58		0.038	0.010	mg/Kg	1	☼		8270D	Total/NA
Benzo[b]fluoranthene	0.75		0.038	0.0099	mg/Kg	1	☼		8270D	Total/NA
Benzo[g,h,i]perylene	0.32	J	0.38	0.011	mg/Kg	1	☼		8270D	Total/NA
Benzo[k]fluoranthene	0.30		0.038	0.0075	mg/Kg	1	☼		8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.40		0.38	0.020	mg/Kg	1	☼		8270D	Total/NA
Carbazole	0.043	J	0.38	0.0045	mg/Kg	1	☼		8270D	Total/NA
Chrysene	0.78		0.38	0.0065	mg/Kg	1	☼		8270D	Total/NA
Dibenz(a,h)anthracene	0.089		0.038	0.017	mg/Kg	1	☼		8270D	Total/NA
Dibenzofuran	0.016	J	0.38	0.0054	mg/Kg	1	☼		8270D	Total/NA
Fluoranthene	1.3		0.38	0.0050	mg/Kg	1	☼		8270D	Total/NA
Fluorene	0.033	J	0.38	0.0052	mg/Kg	1	☼		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.39		0.038	0.015	mg/Kg	1	☼		8270D	Total/NA
Naphthalene	0.034	J	0.38	0.0066	mg/Kg	1	☼		8270D	Total/NA
Phenanthrene	0.65		0.38	0.0067	mg/Kg	1	☼		8270D	Total/NA
Pyrene	1.4		0.38	0.0095	mg/Kg	1	☼		8270D	Total/NA
2,4-D	0.021	J p	0.039	0.014	mg/Kg	1	☼		8151A	Total/NA
Aluminum	11700		18.4	6.3	mg/Kg	20	☼		6020B	Total/NA
Arsenic	3.7		0.92	0.30	mg/Kg	20	☼		6020B	Total/NA
Barium	57.1		1.8	0.61	mg/Kg	20	☼		6020B	Total/NA
Beryllium	0.56		0.37	0.15	mg/Kg	20	☼		6020B	Total/NA
Calcium	10800		92.0	27.3	mg/Kg	20	☼		6020B	Total/NA
Chromium	20.6		1.8	0.55	mg/Kg	20	☼		6020B	Total/NA
Cobalt	7.2		1.8	0.55	mg/Kg	20	☼		6020B	Total/NA
Copper	20.3		1.8	0.53	mg/Kg	20	☼		6020B	Total/NA
Iron	16900		55.2	19.3	mg/Kg	20	☼		6020B	Total/NA
Lead	29.9		0.55	0.17	mg/Kg	20	☼		6020B	Total/NA
Magnesium	9620		92.0	25.6	mg/Kg	20	☼		6020B	Total/NA
Manganese	406		3.7	1.1	mg/Kg	20	☼		6020B	Total/NA
Nickel	16.1		1.8	0.60	mg/Kg	20	☼		6020B	Total/NA
Potassium	1370		92.0	33.1	mg/Kg	20	☼		6020B	Total/NA
Selenium	0.33	J	4.6	0.27	mg/Kg	20	☼		6020B	Total/NA
Sodium	793		92.0	28.8	mg/Kg	20	☼		6020B	Total/NA
Thallium	0.13	J	0.37	0.11	mg/Kg	20	☼		6020B	Total/NA
Vanadium	23.3		1.8	0.52	mg/Kg	20	☼		6020B	Total/NA
Zinc	63.6		7.4	3.6	mg/Kg	20	☼		6020B	Total/NA
Mercury	0.17		0.019	0.011	mg/Kg	1	☼		7471B	Total/NA
Cyanide, Total	0.081	J	0.24	0.063	mg/Kg	1	☼		9012B	Total/NA

Client Sample ID: MR-14_5_6

Lab Sample ID: 460-161504-2

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161504-1

Client Sample ID: MR-14_5_6 (Continued)

Lab Sample ID: 460-161504-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0015	J	0.0054	0.0012	mg/Kg	1	☼		8260C	Total/NA
Acetone	0.0046	J	0.0054	0.0041	mg/Kg	1	☼		8260C	Total/NA
Tetrachloroethene	0.00017	J	0.0011	0.00016	mg/Kg	1	☼		8260C	Total/NA
Acenaphthylene	0.016	J	0.38	0.0039	mg/Kg	1	☼		8270D	Total/NA
Anthracene	0.074	J	0.38	0.0042	mg/Kg	1	☼		8270D	Total/NA
Benzo[a]anthracene	0.34		0.038	0.013	mg/Kg	1	☼		8270D	Total/NA
Benzo[a]pyrene	0.30		0.038	0.010	mg/Kg	1	☼		8270D	Total/NA
Benzo[b]fluoranthene	0.38		0.038	0.0098	mg/Kg	1	☼		8270D	Total/NA
Benzo[g,h,i]perylene	0.19	J	0.38	0.011	mg/Kg	1	☼		8270D	Total/NA
Benzo[k]fluoranthene	0.16		0.038	0.0074	mg/Kg	1	☼		8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.24	J	0.38	0.020	mg/Kg	1	☼		8270D	Total/NA
Carbazole	0.021	J	0.38	0.0044	mg/Kg	1	☼		8270D	Total/NA
Chrysene	0.35	J	0.38	0.0064	mg/Kg	1	☼		8270D	Total/NA
Dibenz(a,h)anthracene	0.040		0.038	0.016	mg/Kg	1	☼		8270D	Total/NA
Dibenzofuran	0.012	J	0.38	0.0053	mg/Kg	1	☼		8270D	Total/NA
Fluoranthene	0.60		0.38	0.0049	mg/Kg	1	☼		8270D	Total/NA
Fluorene	0.017	J	0.38	0.0051	mg/Kg	1	☼		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.22		0.038	0.015	mg/Kg	1	☼		8270D	Total/NA
Naphthalene	0.012	J	0.38	0.0065	mg/Kg	1	☼		8270D	Total/NA
Phenanthrene	0.32	J	0.38	0.0066	mg/Kg	1	☼		8270D	Total/NA
Pyrene	0.63		0.38	0.0094	mg/Kg	1	☼		8270D	Total/NA
Aluminum	12700		16.7	5.7	mg/Kg	20	☼		6020B	Total/NA
Arsenic	5.4		0.83	0.27	mg/Kg	20	☼		6020B	Total/NA
Barium	122		1.7	0.55	mg/Kg	20	☼		6020B	Total/NA
Beryllium	0.65		0.33	0.13	mg/Kg	20	☼		6020B	Total/NA
Cadmium	1.6		0.83	0.28	mg/Kg	20	☼		6020B	Total/NA
Calcium	13900		83.5	24.8	mg/Kg	20	☼		6020B	Total/NA
Chromium	24.1		1.7	0.50	mg/Kg	20	☼		6020B	Total/NA
Cobalt	7.5		1.7	0.50	mg/Kg	20	☼		6020B	Total/NA
Copper	35.6		1.7	0.48	mg/Kg	20	☼		6020B	Total/NA
Iron	20800		50.1	17.5	mg/Kg	20	☼		6020B	Total/NA
Lead	162		0.50	0.16	mg/Kg	20	☼		6020B	Total/NA
Magnesium	6490		83.5	23.2	mg/Kg	20	☼		6020B	Total/NA
Manganese	537		3.3	1.0	mg/Kg	20	☼		6020B	Total/NA
Nickel	18.2		1.7	0.54	mg/Kg	20	☼		6020B	Total/NA
Potassium	1560		83.5	30.0	mg/Kg	20	☼		6020B	Total/NA
Selenium	0.44	J	4.2	0.24	mg/Kg	20	☼		6020B	Total/NA
Silver	39.5		0.83	0.52	mg/Kg	20	☼		6020B	Total/NA
Sodium	731		83.5	26.1	mg/Kg	20	☼		6020B	Total/NA
Thallium	0.15	J	0.33	0.10	mg/Kg	20	☼		6020B	Total/NA
Vanadium	29.3		1.7	0.47	mg/Kg	20	☼		6020B	Total/NA
Zinc	366		6.7	3.3	mg/Kg	20	☼		6020B	Total/NA
Mercury	0.099		0.019	0.011	mg/Kg	1	☼		7471B	Total/NA
Cyanide, Total	0.11	J	0.25	0.064	mg/Kg	1	☼		9012B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Method Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161504-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
8081B	Organochlorine Pesticides (GC)	SW846	TAL EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL EDI
8151A	Herbicides (GC)	SW846	TAL EDI
6020B	Metals (ICP/MS)	SW846	TAL EDI
7471B	Mercury (CVAA)	SW846	TAL EDI
9012B	Cyanide, Total and/or Amenable	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
3050B	Preparation, Metals	SW846	TAL EDI
3546	Microwave Extraction	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI
7471B	Preparation, Mercury	SW846	TAL EDI
8151A	Extraction (Herbicides)	SW846	TAL EDI
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161504-1

Client Sample ID: MR-14_1_1.5

Date Collected: 07/30/18 08:45

Date Received: 07/30/18 19:00

Lab Sample ID: 460-161504-1

Matrix: Solid

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0011	U	0.0011	0.00025	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
1,1,2,2-Tetrachloroethane	0.0011	U	0.0011	0.00023	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0011	U	0.0011	0.00032	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
1,1,2-Trichloroethane	0.0011	U	0.0011	0.00019	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
1,1-Dichloroethane	0.0011	U	0.0011	0.00022	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
1,1-Dichloroethene	0.0011	U	0.0011	0.00024	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
1,2,3-Trichlorobenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
1,2,4-Trichlorobenzene	0.0011	U	0.0011	0.000097	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
1,2-Dibromo-3-Chloropropane	0.0011	U	0.0011	0.00049	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
1,2-Dichlorobenzene	0.0011	U	0.0011	0.00015	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
1,2-Dichloroethane	0.0011	U	0.0011	0.00031	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
1,2-Dichloropropane	0.0011	U	0.0011	0.00045	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
1,3-Dichlorobenzene	0.0011	U	0.0011	0.00017	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
1,4-Dichlorobenzene	0.0011	U	0.0011	0.00011	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
1,4-Dioxane	0.021	U	0.021	0.0097	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
2-Butanone (MEK)	0.0026	J	0.0053	0.0012	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
2-Hexanone	0.0053	U	0.0053	0.00082	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
4-Methyl-2-pentanone (MIBK)	0.0053	U	0.0053	0.00070	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Acetone	0.0069		0.0053	0.0040	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Benzene	0.0011	U	0.0011	0.00027	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Bromoform	0.0011	U	0.0011	0.00045	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Bromomethane	0.0011	U	0.0011	0.00050	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Carbon disulfide	0.0011	U	0.0011	0.00028	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Carbon tetrachloride	0.0011	U	0.0011	0.00019	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Chlorobenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Chlorobromomethane	0.0011	U	0.0011	0.00030	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Chlorodibromomethane	0.0011	U	0.0011	0.00021	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Chloroethane	0.0011	U	0.0011	0.00055	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Chloroform	0.0011	U	0.0011	0.00034	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Chloromethane	0.0011	U	0.0011	0.00046	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
cis-1,2-Dichloroethene	0.0011	U	0.0011	0.00016	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
cis-1,3-Dichloropropene	0.0011	U	0.0011	0.00029	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Cyclohexane	0.0011	U	0.0011	0.00023	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Dichlorobromomethane	0.0011	U	0.0011	0.00027	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Dichlorodifluoromethane	0.0011	U	0.0011	0.00036	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Ethylbenzene	0.0011	U	0.0011	0.00021	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Ethylene Dibromide	0.0011	U	0.0011	0.00019	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Isopropylbenzene	0.0011	U	0.0011	0.00013	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Methyl acetate	0.0053	U	0.0053	0.0045	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Methyl tert-butyl ether	0.0011	U	0.0011	0.00013	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Methylcyclohexane	0.0011	U	0.0011	0.00017	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Methylene Chloride	0.0011	U	0.0011	0.00017	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
m-Xylene & p-Xylene	0.0011	U	0.0011	0.00018	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
o-Xylene	0.0011	U	0.0011	0.00010	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Styrene	0.0011	U	0.0011	0.00013	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Tetrachloroethene	0.00033	J	0.0011	0.00015	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Toluene	0.0011	U	0.0011	0.00066	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
trans-1,2-Dichloroethene	0.0011	U	0.0011	0.00026	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
trans-1,3-Dichloropropene	0.0011	U	0.0011	0.00028	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161504-1

Client Sample ID: MR-14_1_1.5

Lab Sample ID: 460-161504-1

Date Collected: 07/30/18 08:45

Matrix: Solid

Date Received: 07/30/18 19:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.00016	J	0.0011	0.00015	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Trichlorofluoromethane	0.0011	U	0.0011	0.00043	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1
Vinyl chloride	0.0011	U	0.0011	0.00058	mg/Kg	☼	07/31/18 08:08	08/01/18 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		78 - 135	07/31/18 08:08	08/01/18 02:51	1
4-Bromofluorobenzene	95		67 - 126	07/31/18 08:08	08/01/18 02:51	1
Dibromofluoromethane (Surr)	104		61 - 149	07/31/18 08:08	08/01/18 02:51	1
Toluene-d8 (Surr)	102		73 - 121	07/31/18 08:08	08/01/18 02:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.38	U	0.38	0.0051	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
1,2,4,5-Tetrachlorobenzene	0.38	U	0.38	0.0050	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
2,2'-oxybis[1-chloropropane]	0.38	U	0.38	0.0069	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
2,3,4,6-Tetrachlorophenol	0.38	U	0.38	0.026	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
2,4,5-Trichlorophenol	0.38	U	0.38	0.013	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.019	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
2,4-Dichlorophenol	0.15	U	0.15	0.0081	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
2,4-Dimethylphenol	0.38	U	0.38	0.017	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
2,4-Dinitrophenol	0.31	U	0.31	0.19	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
2,4-Dinitrotoluene	0.078	U	0.078	0.019	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
2,6-Dinitrotoluene	0.078	U	0.078	0.012	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
2-Chloronaphthalene	0.38	U	0.38	0.018	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
2-Chlorophenol	0.38	U	0.38	0.0054	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
2-Methylnaphthalene	0.017	J	0.38	0.0048	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
2-Methylphenol	0.38	U	0.38	0.0062	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
2-Nitroaniline	0.38	U	0.38	0.014	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
2-Nitrophenol	0.38	U	0.38	0.012	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.058	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
3-Nitroaniline	0.38	U	0.38	0.021	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
4,6-Dinitro-2-methylphenol	0.31	U	0.31	0.062	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
4-Bromophenyl phenyl ether	0.38	U	0.38	0.0050	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
4-Chloro-3-methylphenol	0.38	U	0.38	0.0064	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
4-Chloroaniline	0.38	U	0.38	0.027	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
4-Chlorophenyl phenyl ether	0.38	U	0.38	0.0060	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
4-Methylphenol	0.38	U	0.38	0.0065	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
4-Nitroaniline	0.38	U	0.38	0.014	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
4-Nitrophenol	0.78	U	0.78	0.062	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Acenaphthene	0.043	J	0.38	0.028	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Acenaphthylene	0.025	J	0.38	0.0040	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Acetophenone	0.38	U	0.38	0.0062	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Anthracene	0.14	J	0.38	0.0043	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Atrazine	0.15	U	0.15	0.0097	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Benzaldehyde	0.38	U	0.38	0.017	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Benzo[a]anthracene	0.71		0.038	0.013	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Benzo[a]pyrene	0.58		0.038	0.010	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Benzo[b]fluoranthene	0.75		0.038	0.0099	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Benzo[g,h,i]perylene	0.32	J	0.38	0.011	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Benzo[k]fluoranthene	0.30		0.038	0.0075	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161504-1

Client Sample ID: MR-14_1_1.5

Lab Sample ID: 460-161504-1

Date Collected: 07/30/18 08:45

Matrix: Solid

Date Received: 07/30/18 19:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	0.38	U	0.38	0.013	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Bis(2-chloroethyl)ether	0.038	U	0.038	0.0046	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Bis(2-ethylhexyl) phthalate	0.40		0.38	0.020	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Butyl benzyl phthalate	0.38	U	0.38	0.018	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Caprolactam	0.38	U	0.38	0.023	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Carbazole	0.043	J	0.38	0.0045	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Chrysene	0.78		0.38	0.0065	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Dibenz(a,h)anthracene	0.089		0.038	0.017	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Dibenzofuran	0.016	J	0.38	0.0054	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Diethyl phthalate	0.38	U	0.38	0.0055	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Dimethyl phthalate	0.38	U	0.38	0.0046	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Di-n-butyl phthalate	0.38	U	0.38	0.068	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Di-n-octyl phthalate	0.38	U	0.38	0.020	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Fluoranthene	1.3		0.38	0.0050	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Fluorene	0.033	J	0.38	0.0052	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Hexachlorobenzene	0.038	U	0.038	0.0056	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Hexachlorobutadiene	0.078	U *	0.078	0.0081	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Hexachlorocyclopentadiene	0.38	U	0.38	0.034	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Hexachloroethane	0.038	U	0.038	0.0059	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Indeno[1,2,3-cd]pyrene	0.39		0.038	0.015	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Isophorone	0.15	U	0.15	0.010	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Naphthalene	0.034	J	0.38	0.0066	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Nitrobenzene	0.038	U	0.038	0.0092	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
N-Nitrosodi-n-propylamine	0.038	U	0.038	0.0061	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
N-Nitrosodiphenylamine	0.38	U	0.38	0.0073	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Pentachlorophenol	0.31	U	0.31	0.078	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Phenanthrene	0.65		0.38	0.0067	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Phenol	0.38	U	0.38	0.0057	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1
Pyrene	1.4		0.38	0.0095	mg/Kg	☼	07/31/18 11:03	08/01/18 01:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	45		10 - 103	07/31/18 11:03	08/01/18 01:22	1
2-Fluorobiphenyl	51		38 - 95	07/31/18 11:03	08/01/18 01:22	1
2-Fluorophenol (Surr)	72		25 - 92	07/31/18 11:03	08/01/18 01:22	1
Nitrobenzene-d5 (Surr)	60		37 - 94	07/31/18 11:03	08/01/18 01:22	1
Phenol-d5 (Surr)	72		32 - 91	07/31/18 11:03	08/01/18 01:22	1
Terphenyl-d14 (Surr)	47		24 - 109	07/31/18 11:03	08/01/18 01:22	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0078	U	0.0078	0.0013	mg/Kg	☼	07/31/18 20:20	08/01/18 10:32	1
4,4'-DDE	0.0078	U	0.0078	0.00091	mg/Kg	☼	07/31/18 20:20	08/01/18 10:32	1
4,4'-DDT	0.0078	U	0.0078	0.0014	mg/Kg	☼	07/31/18 20:20	08/01/18 10:32	1
Aldrin	0.0078	U	0.0078	0.0012	mg/Kg	☼	07/31/18 20:20	08/01/18 10:32	1
alpha-BHC	0.0023	U	0.0023	0.00079	mg/Kg	☼	07/31/18 20:20	08/01/18 10:32	1
beta-BHC	0.0023	U	0.0023	0.00087	mg/Kg	☼	07/31/18 20:20	08/01/18 10:32	1
Chlordane (technical)	0.078	U	0.078	0.019	mg/Kg	☼	07/31/18 20:20	08/01/18 10:32	1
delta-BHC	0.0023	U	0.0023	0.00047	mg/Kg	☼	07/31/18 20:20	08/01/18 10:32	1
Dieldrin	0.0023	U	0.0023	0.0010	mg/Kg	☼	07/31/18 20:20	08/01/18 10:32	1
Endosulfan I	0.0078	U	0.0078	0.0012	mg/Kg	☼	07/31/18 20:20	08/01/18 10:32	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161504-1

Client Sample ID: MR-14_1_1.5

Lab Sample ID: 460-161504-1

Date Collected: 07/30/18 08:45

Matrix: Solid

Date Received: 07/30/18 19:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	0.0078	U	0.0078	0.0020	mg/Kg	☼	07/31/18 20:20	08/01/18 10:32	1
Endosulfan sulfate	0.0078	U	0.0078	0.00097	mg/Kg	☼	07/31/18 20:20	08/01/18 10:32	1
Endrin	0.0078	U	0.0078	0.0011	mg/Kg	☼	07/31/18 20:20	08/01/18 10:32	1
Endrin aldehyde	0.0078	U	0.0078	0.0018	mg/Kg	☼	07/31/18 20:20	08/01/18 10:32	1
Endrin ketone	0.0078	U	0.0078	0.0015	mg/Kg	☼	07/31/18 20:20	08/01/18 10:32	1
gamma-BHC (Lindane)	0.0023	U	0.0023	0.00072	mg/Kg	☼	07/31/18 20:20	08/01/18 10:32	1
Heptachlor	0.0078	U	0.0078	0.00091	mg/Kg	☼	07/31/18 20:20	08/01/18 10:32	1
Heptachlor epoxide	0.0078	U	0.0078	0.0012	mg/Kg	☼	07/31/18 20:20	08/01/18 10:32	1
Methoxychlor	0.0078	U	0.0078	0.0018	mg/Kg	☼	07/31/18 20:20	08/01/18 10:32	1
Toxaphene	0.078	U	0.078	0.028	mg/Kg	☼	07/31/18 20:20	08/01/18 10:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	92		69 - 150	07/31/18 20:20	08/01/18 10:32	1
DCB Decachlorobiphenyl	93		69 - 150	07/31/18 20:20	08/01/18 10:32	1
Tetrachloro-m-xylene	94		74 - 150	07/31/18 20:20	08/01/18 10:32	1
Tetrachloro-m-xylene	94		74 - 150	07/31/18 20:20	08/01/18 10:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.078	U	0.078	0.010	mg/Kg	☼	07/31/18 20:27	08/01/18 13:09	1
Aroclor 1221	0.078	U	0.078	0.010	mg/Kg	☼	07/31/18 20:27	08/01/18 13:09	1
Aroclor 1232	0.078	U	0.078	0.010	mg/Kg	☼	07/31/18 20:27	08/01/18 13:09	1
Aroclor 1242	0.078	U	0.078	0.010	mg/Kg	☼	07/31/18 20:27	08/01/18 13:09	1
Aroclor 1248	0.078	U	0.078	0.010	mg/Kg	☼	07/31/18 20:27	08/01/18 13:09	1
Aroclor 1254	0.078	U	0.078	0.011	mg/Kg	☼	07/31/18 20:27	08/01/18 13:09	1
Aroclor 1260	0.078	U	0.078	0.011	mg/Kg	☼	07/31/18 20:27	08/01/18 13:09	1
Aroclor-1262	0.078	U	0.078	0.011	mg/Kg	☼	07/31/18 20:27	08/01/18 13:09	1
Aroclor 1268	0.078	U	0.078	0.011	mg/Kg	☼	07/31/18 20:27	08/01/18 13:09	1
Polychlorinated biphenyls, Total	0.078	U	0.078	0.011	mg/Kg	☼	07/31/18 20:27	08/01/18 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	106		53 - 150	07/31/18 20:27	08/01/18 13:09	1
DCB Decachlorobiphenyl	93		53 - 150	07/31/18 20:27	08/01/18 13:09	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.039	U	0.039	0.0082	mg/Kg	☼	07/31/18 03:37	07/31/18 10:11	1
2,4-D	0.021	J p	0.039	0.014	mg/Kg	☼	07/31/18 03:37	07/31/18 10:11	1
Silvex (2,4,5-TP)	0.039	U	0.039	0.0040	mg/Kg	☼	07/31/18 03:37	07/31/18 10:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	141		80 - 150	07/31/18 03:37	07/31/18 10:11	1
2,4-Dichlorophenylacetic acid	128		80 - 150	07/31/18 03:37	07/31/18 10:11	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11700		18.4	6.3	mg/Kg	☼	08/05/18 23:16	08/06/18 14:07	20
Antimony	0.92	U	0.92	0.27	mg/Kg	☼	08/05/18 23:16	08/06/18 14:07	20
Arsenic	3.7		0.92	0.30	mg/Kg	☼	08/05/18 23:16	08/06/18 14:07	20
Barium	57.1		1.8	0.61	mg/Kg	☼	08/05/18 23:16	08/06/18 14:07	20
Beryllium	0.56		0.37	0.15	mg/Kg	☼	08/05/18 23:16	08/06/18 14:07	20

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161504-1

Client Sample ID: MR-14_1_1.5

Date Collected: 07/30/18 08:45

Date Received: 07/30/18 19:00

Lab Sample ID: 460-161504-1

Matrix: Solid

Percent Solids: 86.3

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.92	U	0.92	0.31	mg/Kg	☼	08/05/18 23:16	08/06/18 14:07	20
Calcium	10800		92.0	27.3	mg/Kg	☼	08/05/18 23:16	08/06/18 14:07	20
Chromium	20.6		1.8	0.55	mg/Kg	☼	08/05/18 23:16	08/06/18 14:07	20
Cobalt	7.2		1.8	0.55	mg/Kg	☼	08/05/18 23:16	08/06/18 14:07	20
Copper	20.3		1.8	0.53	mg/Kg	☼	08/05/18 23:16	08/06/18 14:07	20
Iron	16900		55.2	19.3	mg/Kg	☼	08/05/18 23:16	08/06/18 14:07	20
Lead	29.9		0.55	0.17	mg/Kg	☼	08/05/18 23:16	08/06/18 14:07	20
Magnesium	9620		92.0	25.6	mg/Kg	☼	08/05/18 23:16	08/06/18 14:07	20
Manganese	406		3.7	1.1	mg/Kg	☼	08/05/18 23:16	08/06/18 14:07	20
Nickel	16.1		1.8	0.60	mg/Kg	☼	08/05/18 23:16	08/06/18 14:07	20
Potassium	1370		92.0	33.1	mg/Kg	☼	08/05/18 23:16	08/06/18 14:07	20
Selenium	0.33	J	4.6	0.27	mg/Kg	☼	08/05/18 23:16	08/06/18 14:07	20
Silver	0.92	U	0.92	0.57	mg/Kg	☼	08/05/18 23:16	08/06/18 14:07	20
Sodium	793		92.0	28.8	mg/Kg	☼	08/05/18 23:16	08/06/18 14:07	20
Thallium	0.13	J	0.37	0.11	mg/Kg	☼	08/05/18 23:16	08/06/18 14:07	20
Vanadium	23.3		1.8	0.52	mg/Kg	☼	08/05/18 23:16	08/06/18 14:07	20
Zinc	63.6		7.4	3.6	mg/Kg	☼	08/05/18 23:16	08/06/18 14:07	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0.019	0.011	mg/Kg	☼	08/02/18 03:59	08/02/18 08:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.081	J	0.24	0.063	mg/Kg	☼	08/01/18 08:18	08/01/18 12:12	1

Client Sample ID: MR-14_5_6

Date Collected: 07/30/18 08:55

Date Received: 07/30/18 19:00

Lab Sample ID: 460-161504-2

Matrix: Solid

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0011	U	0.0011	0.00025	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
1,1,2,2-Tetrachloroethane	0.0011	U	0.0011	0.00023	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0011	U	0.0011	0.00033	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
1,1,2-Trichloroethane	0.0011	U	0.0011	0.00019	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
1,1-Dichloroethane	0.0011	U	0.0011	0.00022	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
1,1-Dichloroethene	0.0011	U	0.0011	0.00025	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
1,2,3-Trichlorobenzene	0.0011	U	0.0011	0.00020	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
1,2,4-Trichlorobenzene	0.0011	U	0.0011	0.00010	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
1,2-Dibromo-3-Chloropropane	0.0011	U	0.0011	0.00050	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
1,2-Dichlorobenzene	0.0011	U	0.0011	0.00016	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
1,2-Dichloroethane	0.0011	U	0.0011	0.00032	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
1,2-Dichloropropane	0.0011	U	0.0011	0.00046	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
1,3-Dichlorobenzene	0.0011	U	0.0011	0.00017	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
1,4-Dichlorobenzene	0.0011	U	0.0011	0.00011	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
1,4-Dioxane	0.022	U	0.022	0.010	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
2-Butanone (MEK)	0.0015	J	0.0054	0.0012	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
2-Hexanone	0.0054	U	0.0054	0.00085	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
4-Methyl-2-pentanone (MIBK)	0.0054	U	0.0054	0.00072	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161504-1

Client Sample ID: MR-14_5_6

Lab Sample ID: 460-161504-2

Date Collected: 07/30/18 08:55

Matrix: Solid

Date Received: 07/30/18 19:00

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0046	J	0.0054	0.0041	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Benzene	0.0011	U	0.0011	0.00028	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Bromoform	0.0011	U	0.0011	0.00046	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Bromomethane	0.0011	U	0.0011	0.00052	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Carbon disulfide	0.0011	U	0.0011	0.00029	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Carbon tetrachloride	0.0011	U	0.0011	0.00020	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Chlorobenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Chlorobromomethane	0.0011	U	0.0011	0.00031	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Chlorodibromomethane	0.0011	U	0.0011	0.00021	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Chloroethane	0.0011	U	0.0011	0.00057	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Chloroform	0.0011	U	0.0011	0.00035	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Chloromethane	0.0011	U	0.0011	0.00047	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
cis-1,2-Dichloroethene	0.0011	U	0.0011	0.00017	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
cis-1,3-Dichloropropene	0.0011	U	0.0011	0.00030	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Cyclohexane	0.0011	U	0.0011	0.00024	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Dichlorobromomethane	0.0011	U	0.0011	0.00028	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Dichlorodifluoromethane	0.0011	U	0.0011	0.00037	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Ethylbenzene	0.0011	U	0.0011	0.00022	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Ethylene Dibromide	0.0011	U	0.0011	0.00020	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Isopropylbenzene	0.0011	U	0.0011	0.00014	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Methyl acetate	0.0054	U	0.0054	0.0047	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Methyl tert-butyl ether	0.0011	U	0.0011	0.00014	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Methylcyclohexane	0.0011	U	0.0011	0.00017	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Methylene Chloride	0.0011	U	0.0011	0.00018	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
m-Xylene & p-Xylene	0.0011	U	0.0011	0.00019	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
o-Xylene	0.0011	U	0.0011	0.00010	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Styrene	0.0011	U	0.0011	0.00013	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Tetrachloroethene	0.00017	J	0.0011	0.00016	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Toluene	0.0011	U	0.0011	0.00068	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
trans-1,2-Dichloroethene	0.0011	U	0.0011	0.00027	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
trans-1,3-Dichloropropene	0.0011	U	0.0011	0.00029	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Trichloroethene	0.0011	U	0.0011	0.00016	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Trichlorofluoromethane	0.0011	U	0.0011	0.00044	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1
Vinyl chloride	0.0011	U	0.0011	0.00059	mg/Kg	☼	07/31/18 08:09	08/01/18 03:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		78 - 135	07/31/18 08:09	08/01/18 03:16	1
4-Bromofluorobenzene	93		67 - 126	07/31/18 08:09	08/01/18 03:16	1
Dibromofluoromethane (Surr)	106		61 - 149	07/31/18 08:09	08/01/18 03:16	1
Toluene-d8 (Surr)	101		73 - 121	07/31/18 08:09	08/01/18 03:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.38	U	0.38	0.0050	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
1,2,4,5-Tetrachlorobenzene	0.38	U	0.38	0.0049	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
2,2'-oxybis[1-chloropropane]	0.38	U	0.38	0.0068	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
2,3,4,6-Tetrachlorophenol	0.38	U	0.38	0.026	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
2,4,5-Trichlorophenol	0.38	U	0.38	0.012	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.019	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
2,4-Dichlorophenol	0.15	U	0.15	0.0080	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161504-1

Client Sample ID: MR-14_5_6

Lab Sample ID: 460-161504-2

Date Collected: 07/30/18 08:55

Matrix: Solid

Date Received: 07/30/18 19:00

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	0.38	U	0.38	0.017	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
2,4-Dinitrophenol	0.30	U	0.30	0.19	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
2,4-Dinitrotoluene	0.077	U	0.077	0.019	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
2,6-Dinitrotoluene	0.077	U	0.077	0.012	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
2-Chloronaphthalene	0.38	U	0.38	0.017	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
2-Chlorophenol	0.38	U	0.38	0.0053	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
2-Methylnaphthalene	0.38	U	0.38	0.0047	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
2-Methylphenol	0.38	U	0.38	0.0061	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
2-Nitroaniline	0.38	U	0.38	0.014	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
2-Nitrophenol	0.38	U	0.38	0.012	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.057	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
3-Nitroaniline	0.38	U	0.38	0.020	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
4,6-Dinitro-2-methylphenol	0.30	U	0.30	0.061	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
4-Bromophenyl phenyl ether	0.38	U	0.38	0.0049	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
4-Chloro-3-methylphenol	0.38	U	0.38	0.0063	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
4-Chloroaniline	0.38	U	0.38	0.026	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
4-Chlorophenyl phenyl ether	0.38	U	0.38	0.0060	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
4-Methylphenol	0.38	U	0.38	0.0064	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
4-Nitroaniline	0.38	U	0.38	0.014	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
4-Nitrophenol	0.77	U	0.77	0.062	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Acenaphthene	0.38	U	0.38	0.027	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Acenaphthylene	0.016	J	0.38	0.0039	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Acetophenone	0.38	U	0.38	0.0061	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Anthracene	0.074	J	0.38	0.0042	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Atrazine	0.15	U	0.15	0.0095	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Benzaldehyde	0.38	U	0.38	0.016	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Benzo[a]anthracene	0.34		0.038	0.013	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Benzo[a]pyrene	0.30		0.038	0.010	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Benzo[b]fluoranthene	0.38		0.038	0.0098	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Benzo[g,h,i]perylene	0.19	J	0.38	0.011	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Benzo[k]fluoranthene	0.16		0.038	0.0074	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Bis(2-chloroethoxy)methane	0.38	U	0.38	0.013	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Bis(2-chloroethyl)ether	0.038	U	0.038	0.0046	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Bis(2-ethylhexyl) phthalate	0.24	J	0.38	0.020	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Butyl benzyl phthalate	0.38	U	0.38	0.018	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Caprolactam	0.38	U	0.38	0.023	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Carbazole	0.021	J	0.38	0.0044	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Chrysene	0.35	J	0.38	0.0064	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Dibenz(a,h)anthracene	0.040		0.038	0.016	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Dibenzofuran	0.012	J	0.38	0.0053	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Diethyl phthalate	0.38	U	0.38	0.0055	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Dimethyl phthalate	0.38	U	0.38	0.0046	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Di-n-butyl phthalate	0.38	U	0.38	0.067	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Di-n-octyl phthalate	0.38	U	0.38	0.020	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Fluoranthene	0.60		0.38	0.0049	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Fluorene	0.017	J	0.38	0.0051	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Hexachlorobenzene	0.038	U	0.038	0.0055	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Hexachlorobutadiene	0.077	U *	0.077	0.0080	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Hexachlorocyclopentadiene	0.38	U	0.38	0.033	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161504-1

Client Sample ID: MR-14_5_6

Lab Sample ID: 460-161504-2

Date Collected: 07/30/18 08:55

Matrix: Solid

Date Received: 07/30/18 19:00

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	0.038	U	0.038	0.0058	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Indeno[1,2,3-cd]pyrene	0.22		0.038	0.015	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Isophorone	0.15	U	0.15	0.0099	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Naphthalene	0.012	J	0.38	0.0065	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Nitrobenzene	0.038	U	0.038	0.0091	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
N-Nitrosodi-n-propylamine	0.038	U	0.038	0.0060	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
N-Nitrosodiphenylamine	0.38	U	0.38	0.0072	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Pentachlorophenol	0.30	U	0.30	0.077	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Phenanthrene	0.32	J	0.38	0.0066	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Phenol	0.38	U	0.38	0.0056	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1
Pyrene	0.63		0.38	0.0094	mg/Kg	☼	07/31/18 11:03	08/01/18 01:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	53		10 - 103	07/31/18 11:03	08/01/18 01:39	1
2-Fluorobiphenyl	57		38 - 95	07/31/18 11:03	08/01/18 01:39	1
2-Fluorophenol (Surr)	68		25 - 92	07/31/18 11:03	08/01/18 01:39	1
Nitrobenzene-d5 (Surr)	63		37 - 94	07/31/18 11:03	08/01/18 01:39	1
Phenol-d5 (Surr)	67		32 - 91	07/31/18 11:03	08/01/18 01:39	1
Terphenyl-d14 (Surr)	60		24 - 109	07/31/18 11:03	08/01/18 01:39	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0077	U	0.0077	0.0013	mg/Kg	☼	07/31/18 20:20	08/01/18 10:44	1
4,4'-DDE	0.0077	U	0.0077	0.00090	mg/Kg	☼	07/31/18 20:20	08/01/18 10:44	1
4,4'-DDT	0.0077	U	0.0077	0.0014	mg/Kg	☼	07/31/18 20:20	08/01/18 10:44	1
Aldrin	0.0077	U	0.0077	0.0012	mg/Kg	☼	07/31/18 20:20	08/01/18 10:44	1
alpha-BHC	0.0023	U	0.0023	0.00078	mg/Kg	☼	07/31/18 20:20	08/01/18 10:44	1
beta-BHC	0.0023	U	0.0023	0.00086	mg/Kg	☼	07/31/18 20:20	08/01/18 10:44	1
Chlordane (technical)	0.077	U	0.077	0.019	mg/Kg	☼	07/31/18 20:20	08/01/18 10:44	1
delta-BHC	0.0023	U	0.0023	0.00047	mg/Kg	☼	07/31/18 20:20	08/01/18 10:44	1
Dieldrin	0.0023	U	0.0023	0.00099	mg/Kg	☼	07/31/18 20:20	08/01/18 10:44	1
Endosulfan I	0.0077	U	0.0077	0.0012	mg/Kg	☼	07/31/18 20:20	08/01/18 10:44	1
Endosulfan II	0.0077	U	0.0077	0.0020	mg/Kg	☼	07/31/18 20:20	08/01/18 10:44	1
Endosulfan sulfate	0.0077	U	0.0077	0.00096	mg/Kg	☼	07/31/18 20:20	08/01/18 10:44	1
Endrin	0.0077	U	0.0077	0.0011	mg/Kg	☼	07/31/18 20:20	08/01/18 10:44	1
Endrin aldehyde	0.0077	U	0.0077	0.0018	mg/Kg	☼	07/31/18 20:20	08/01/18 10:44	1
Endrin ketone	0.0077	U	0.0077	0.0015	mg/Kg	☼	07/31/18 20:20	08/01/18 10:44	1
gamma-BHC (Lindane)	0.0023	U	0.0023	0.00071	mg/Kg	☼	07/31/18 20:20	08/01/18 10:44	1
Heptachlor	0.0077	U	0.0077	0.00090	mg/Kg	☼	07/31/18 20:20	08/01/18 10:44	1
Heptachlor epoxide	0.0077	U	0.0077	0.0011	mg/Kg	☼	07/31/18 20:20	08/01/18 10:44	1
Methoxychlor	0.0077	U	0.0077	0.0017	mg/Kg	☼	07/31/18 20:20	08/01/18 10:44	1
Toxaphene	0.077	U	0.077	0.028	mg/Kg	☼	07/31/18 20:20	08/01/18 10:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	88		69 - 150	07/31/18 20:20	08/01/18 10:44	1
DCB Decachlorobiphenyl	86		69 - 150	07/31/18 20:20	08/01/18 10:44	1
Tetrachloro-m-xylene	89		74 - 150	07/31/18 20:20	08/01/18 10:44	1
Tetrachloro-m-xylene	88		74 - 150	07/31/18 20:20	08/01/18 10:44	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161504-1

Client Sample ID: MR-14_5_6

Date Collected: 07/30/18 08:55

Date Received: 07/30/18 19:00

Lab Sample ID: 460-161504-2

Matrix: Solid

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.077	U	0.077	0.010	mg/Kg	☼	07/31/18 20:27	08/01/18 13:25	1
Aroclor 1221	0.077	U	0.077	0.010	mg/Kg	☼	07/31/18 20:27	08/01/18 13:25	1
Aroclor 1232	0.077	U	0.077	0.010	mg/Kg	☼	07/31/18 20:27	08/01/18 13:25	1
Aroclor 1242	0.077	U	0.077	0.010	mg/Kg	☼	07/31/18 20:27	08/01/18 13:25	1
Aroclor 1248	0.077	U	0.077	0.010	mg/Kg	☼	07/31/18 20:27	08/01/18 13:25	1
Aroclor 1254	0.077	U	0.077	0.011	mg/Kg	☼	07/31/18 20:27	08/01/18 13:25	1
Aroclor 1260	0.077	U	0.077	0.011	mg/Kg	☼	07/31/18 20:27	08/01/18 13:25	1
Aroclor-1262	0.077	U	0.077	0.011	mg/Kg	☼	07/31/18 20:27	08/01/18 13:25	1
Aroclor 1268	0.077	U	0.077	0.011	mg/Kg	☼	07/31/18 20:27	08/01/18 13:25	1
Polychlorinated biphenyls, Total	0.077	U	0.077	0.011	mg/Kg	☼	07/31/18 20:27	08/01/18 13:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	99		53 - 150	07/31/18 20:27	08/01/18 13:25	1
DCB Decachlorobiphenyl	86		53 - 150	07/31/18 20:27	08/01/18 13:25	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.038	U	0.038	0.0081	mg/Kg	☼	07/31/18 03:37	07/31/18 10:26	1
2,4-D	0.038	U	0.038	0.014	mg/Kg	☼	07/31/18 03:37	07/31/18 10:26	1
Silvex (2,4,5-TP)	0.038	U	0.038	0.0040	mg/Kg	☼	07/31/18 03:37	07/31/18 10:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	139		80 - 150	07/31/18 03:37	07/31/18 10:26	1
2,4-Dichlorophenylacetic acid	134		80 - 150	07/31/18 03:37	07/31/18 10:26	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12700		16.7	5.7	mg/Kg	☼	08/05/18 23:16	08/06/18 14:09	20
Antimony	0.83	U	0.83	0.24	mg/Kg	☼	08/05/18 23:16	08/06/18 14:09	20
Arsenic	5.4		0.83	0.27	mg/Kg	☼	08/05/18 23:16	08/06/18 14:09	20
Barium	122		1.7	0.55	mg/Kg	☼	08/05/18 23:16	08/06/18 14:09	20
Beryllium	0.65		0.33	0.13	mg/Kg	☼	08/05/18 23:16	08/06/18 14:09	20
Cadmium	1.6		0.83	0.28	mg/Kg	☼	08/05/18 23:16	08/06/18 14:09	20
Calcium	13900		83.5	24.8	mg/Kg	☼	08/05/18 23:16	08/06/18 14:09	20
Chromium	24.1		1.7	0.50	mg/Kg	☼	08/05/18 23:16	08/06/18 14:09	20
Cobalt	7.5		1.7	0.50	mg/Kg	☼	08/05/18 23:16	08/06/18 14:09	20
Copper	35.6		1.7	0.48	mg/Kg	☼	08/05/18 23:16	08/06/18 14:09	20
Iron	20800		50.1	17.5	mg/Kg	☼	08/05/18 23:16	08/06/18 14:09	20
Lead	162		0.50	0.16	mg/Kg	☼	08/05/18 23:16	08/06/18 14:09	20
Magnesium	6490		83.5	23.2	mg/Kg	☼	08/05/18 23:16	08/06/18 14:09	20
Manganese	537		3.3	1.0	mg/Kg	☼	08/05/18 23:16	08/06/18 14:09	20
Nickel	18.2		1.7	0.54	mg/Kg	☼	08/05/18 23:16	08/06/18 14:09	20
Potassium	1560		83.5	30.0	mg/Kg	☼	08/05/18 23:16	08/06/18 14:09	20
Selenium	0.44	J	4.2	0.24	mg/Kg	☼	08/05/18 23:16	08/06/18 14:09	20
Silver	39.5		0.83	0.52	mg/Kg	☼	08/05/18 23:16	08/06/18 14:09	20
Sodium	731		83.5	26.1	mg/Kg	☼	08/05/18 23:16	08/06/18 14:09	20
Thallium	0.15	J	0.33	0.10	mg/Kg	☼	08/05/18 23:16	08/06/18 14:09	20
Vanadium	29.3		1.7	0.47	mg/Kg	☼	08/05/18 23:16	08/06/18 14:09	20
Zinc	366		6.7	3.3	mg/Kg	☼	08/05/18 23:16	08/06/18 14:09	20

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161504-1

Client Sample ID: MR-14_5_6

Date Collected: 07/30/18 08:55

Date Received: 07/30/18 19:00

Lab Sample ID: 460-161504-2

Matrix: Solid

Percent Solids: 87.5

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.099		0.019	0.011	mg/Kg	☼	08/02/18 03:59	08/02/18 08:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.11	J	0.25	0.064	mg/Kg	☼	08/01/18 08:18	08/01/18 12:15	1

ANALYTICAL REPORT

Job Number: 460-161874-1

Job Description: Taconic Inwood

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, NY 11749
Attention: Ms. Jessica Taylor

Melissa Haas

Approved for release.
Melissa Haas
Project Manager I
11/16/2018 11:26 AM

Melissa Haas, Project Manager I
777 New Durham Road, Edison, NJ, 08817
(203)944-1310
melissa.haas@testamericainc.com
11/16/2018
Revision: 1

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

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TestAmerica Laboratories, Inc.

TestAmerica Edison 777 New Durham Road, Edison, NJ 08817
Tel (732) 549-3900 Fax (732) 549-3679 www.testamericainc.com



Job Number: 460-161874-1

Job Description: Taconic Inwood

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

A handwritten signature in dark ink that reads "Melissa Haas". The signature is written in a cursive, flowing style. Below the signature is a solid horizontal line.

Approved for release.
Melissa Haas
Project Manager I
11/16/2018 11:26 AM

Melissa Haas

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CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: Taconic Inwood

Report Number: 460-161874-1

Revised Report #1

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

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

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

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

REVISED REPORT #1

The following report required a revision: 460-161874-1. Details are as follows: The client requested the addition of NY Part 375 compounds for VOCs, SVOCs, and Pesticides.

RECEIPT

The samples were received on 08/03/2018; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.5 C.

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

Methylene Chloride and Trichlorofluoromethane were detected in method blank MB 460-542573/8 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Methylene Chloride was detected in method blank MB 460-543232/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Chloromethane failed the recovery criteria high for LCS 460-543232/3. 4-Methyl-2-pentanone (MIBK) failed the recovery criteria high for LCSD 460-542573/4. Refer to the QC report for details.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample MR-7_0.5_2.5 (460-161874-1) was analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260C. The samples were prepared on 08/03/2018 and analyzed on 08/09/2018.

The continuing calibration verification (CCV) associated with batch 460-542573 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The laboratory control sample duplicate (LCSD) for analytical batch 460-542573 recovered outside control limits for the following analytes: 4-Methyl-2-pentanone (MIBK). This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-543232 recovered above the upper control limit for Chloromethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The laboratory control sample (LCS) for analytical batch 460-543232 recovered outside control limits for the following analyte: Chloromethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

PESTICIDES

Sample MR-7_0.5_2.5 (460-161874-1) was analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 08/06/2018 and analyzed on 08/07/2018.

No difficulties were encountered during the Pesticides analysis.

All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS

Sample MR-7_0.5_2.5 (460-161874-1) was analyzed for polychlorinated biphenyls in accordance with EPA SW-846 Method 8082A. The samples were prepared on 08/06/2018 and analyzed on 08/07/2018.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

CHLORINATED HERBICIDES

Sample MR-7_0.5_2.5 (460-161874-1) was analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 08/06/2018 and analyzed on 08/07/2018.

2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for 460-161592-A-2-B MS. Refer to the QC report for details.

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

Refer to the QC report for details.

No other difficulties were encountered during the herbicides analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample MR-7_0.5_2.5 (460-161874-1) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 08/05/2018 and analyzed on 08/06/2018.

Several analytes failed the recovery criteria low for the MS of sample MR-7_0.5_2.5MS (460-161874-1) in batch 460-542427.

3,3'-Dichlorobenzidine failed the recovery criteria high.

Several analytes failed the recovery criteria low for the MSD of sample MR-7_0.5_2.5MSD (460-161874-1) in batch 460-542427.

3,3'-Dichlorobenzidine failed the recovery criteria high.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

METALS

Sample MR-7_0.5_2.5 (460-161874-1) was analyzed for Metals in accordance with EPA SW-846 Method 6020A. The samples were prepared on 08/05/2018 and analyzed on 08/06/2018.

Antimony failed the recovery criteria low for the MS of sample 460-161898-14 in batch 460-542571. Several analytes failed the recovery criteria high.

Refer to the QC report for details.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Sample MR-7_0.5_2.5 (460-161874-1) was analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 08/08/2018.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

TOTAL CYANIDE

Sample MR-7_0.5_2.5 (460-161874-1) was analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The samples were prepared on 08/05/2018 and analyzed on 08/06/2018.

The method blank for batch 542519 contained Cyanide above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other difficulties were encountered during the cyanide analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Sample MR-7_0.5_2.5 (460-161874-1) was analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 08/07/2018.

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

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161874-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-161874-1	MR-7_0.5_2.5	Solid	08/02/18 04:55	08/03/18 19:30

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161874-1

Client Sample ID: MR-7_0.5_2.5

Lab Sample ID: 460-161874-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methylene Chloride	0.00021	J B	0.0011	0.00018	mg/Kg	1	☼		8260C	Total/NA
2-Methylnaphthalene	0.43		0.36	0.0045	mg/Kg	1	☼		8270D	Total/NA
3 & 4 Methylphenol	0.016	J	0.36	0.0062	mg/Kg	1	☼		8270D	Total/NA
4-Methylphenol	0.016	J	0.36	0.0062	mg/Kg	1	☼		8270D	Total/NA
Acetophenone	0.072	J	0.36	0.0058	mg/Kg	1	☼		8270D	Total/NA
Anthracene	0.16	J	0.36	0.0040	mg/Kg	1	☼		8270D	Total/NA
Fluorene	0.63		0.36	0.0049	mg/Kg	1	☼		8270D	Total/NA
Phenanthrene	1.3		0.36	0.0063	mg/Kg	1	☼		8270D	Total/NA
Phenol	0.018	J	0.36	0.0054	mg/Kg	1	☼		8270D	Total/NA
Aluminum	11300		16.7	5.7	mg/Kg	20	☼		6020B	Total/NA
Arsenic	3.4		0.83	0.27	mg/Kg	20	☼		6020B	Total/NA
Barium	75.7		1.7	0.55	mg/Kg	20	☼		6020B	Total/NA
Beryllium	0.64		0.33	0.13	mg/Kg	20	☼		6020B	Total/NA
Cadmium	0.29	J	0.83	0.28	mg/Kg	20	☼		6020B	Total/NA
Calcium	57100		83.4	24.8	mg/Kg	20	☼		6020B	Total/NA
Chromium	23.4		1.7	0.50	mg/Kg	20	☼		6020B	Total/NA
Cobalt	7.2		1.7	0.50	mg/Kg	20	☼		6020B	Total/NA
Copper	21.3		1.7	0.48	mg/Kg	20	☼		6020B	Total/NA
Iron	16600		50.1	17.5	mg/Kg	20	☼		6020B	Total/NA
Lead	82.4		0.50	0.16	mg/Kg	20	☼		6020B	Total/NA
Magnesium	34200		83.4	23.2	mg/Kg	20	☼		6020B	Total/NA
Manganese	319		3.3	1.0	mg/Kg	20	☼		6020B	Total/NA
Nickel	16.1		1.7	0.54	mg/Kg	20	☼		6020B	Total/NA
Potassium	2810		83.4	30.0	mg/Kg	20	☼		6020B	Total/NA
Sodium	354		83.4	26.1	mg/Kg	20	☼		6020B	Total/NA
Thallium	0.15	J	0.33	0.10	mg/Kg	20	☼		6020B	Total/NA
Vanadium	30.8		1.7	0.47	mg/Kg	20	☼		6020B	Total/NA
Zinc	175		6.7	3.3	mg/Kg	20	☼		6020B	Total/NA
Mercury	0.060		0.018	0.011	mg/Kg	1	☼		7471B	Total/NA
Cyanide, Total	0.14	J B	0.25	0.066	mg/Kg	1	☼		9012B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Method Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161874-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
8081B	Organochlorine Pesticides (GC)	SW846	TAL EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL EDI
8151A	Herbicides (GC)	SW846	TAL EDI
6020B	Metals (ICP/MS)	SW846	TAL EDI
7471B	Mercury (CVAA)	SW846	TAL EDI
9012B	Cyanide, Total and/or Amenable	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
3050B	Preparation, Metals	SW846	TAL EDI
3546	Microwave Extraction	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI
7471B	Preparation, Mercury	SW846	TAL EDI
8151A	Extraction (Herbicides)	SW846	TAL EDI
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161874-1

Client Sample ID: MR-7_0.5_2.5

Date Collected: 08/02/18 04:55

Date Received: 08/03/18 19:30

Lab Sample ID: 460-161874-1

Matrix: Solid

Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0011	U	0.0011	0.00025	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
1,1,2,2-Tetrachloroethane	0.0011	U	0.0011	0.00023	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0011	U	0.0011	0.00033	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
1,1,2-Trichloroethane	0.0011	U	0.0011	0.00019	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
1,1-Dichloroethane	0.0011	U	0.0011	0.00022	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
1,1-Dichloroethene	0.0011	U	0.0011	0.00025	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
1,2,3-Trichlorobenzene	0.0011	U	0.0011	0.00020	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
1,2,4-Trichlorobenzene	0.0011	U	0.0011	0.00010	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
1,2,4-Trimethylbenzene	0.0011	U	0.0011	0.00010	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
1,2-Dibromo-3-Chloropropane	0.0011	U	0.0011	0.00050	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
1,2-Dichlorobenzene	0.0011	U	0.0011	0.00016	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
1,2-Dichloroethane	0.0011	U	0.0011	0.00032	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
1,2-Dichloropropane	0.0011	U	0.0011	0.00046	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
1,3,5-Trimethylbenzene	0.0011	U	0.0011	0.00013	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
1,3-Dichlorobenzene	0.0011	U	0.0011	0.00017	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
1,4-Dichlorobenzene	0.0011	U	0.0011	0.00011	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
1,4-Dioxane	0.022	U	0.022	0.010	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
2-Butanone (MEK)	0.0055	U	0.0055	0.0012	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
2-Hexanone	0.0055	U	0.0055	0.00085	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
4-Methyl-2-pentanone (MIBK)	0.0055	U	0.0055	0.00072	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Acetone	0.0055	U	0.0055	0.0041	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Benzene	0.0011	U	0.0011	0.00028	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Bromoform	0.0011	U	0.0011	0.00046	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Bromomethane	0.0011	U	0.0011	0.00052	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Carbon disulfide	0.0011	U	0.0011	0.00029	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Carbon tetrachloride	0.0011	U	0.0011	0.00020	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Chlorobenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Chlorobromomethane	0.0011	U	0.0011	0.00031	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Chlorodibromomethane	0.0011	U	0.0011	0.00021	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Chloroethane	0.0011	U	0.0011	0.00057	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Chloroform	0.0011	U	0.0011	0.00035	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Chloromethane	0.0011	U *	0.0011	0.00047	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
cis-1,2-Dichloroethene	0.0011	U	0.0011	0.00017	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
cis-1,3-Dichloropropene	0.0011	U	0.0011	0.00030	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Cyclohexane	0.0011	U	0.0011	0.00024	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Dichlorobromomethane	0.0011	U	0.0011	0.00028	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Dichlorodifluoromethane	0.0011	U	0.0011	0.00037	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Ethylbenzene	0.0011	U	0.0011	0.00022	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Ethylene Dibromide	0.0011	U	0.0011	0.00020	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Isopropylbenzene	0.0011	U	0.0011	0.00014	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Methyl acetate	0.0055	U	0.0055	0.0047	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Methyl tert-butyl ether	0.0011	U	0.0011	0.00014	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Methylcyclohexane	0.0011	U	0.0011	0.00017	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Methylene Chloride	0.00021	J B	0.0011	0.00018	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
m-Xylene & p-Xylene	0.0011	U	0.0011	0.00019	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
n-Butylbenzene	0.0011	U	0.0011	0.00015	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
N-Propylbenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
o-Xylene	0.0011	U	0.0011	0.00010	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
sec-Butylbenzene	0.0011	U	0.0011	0.000096	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161874-1

Client Sample ID: MR-7_0.5_2.5

Lab Sample ID: 460-161874-1

Date Collected: 08/02/18 04:55

Matrix: Solid

Date Received: 08/03/18 19:30

Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.0011	U	0.0011	0.00013	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
tert-Butylbenzene	0.0011	U	0.0011	0.00014	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Tetrachloroethene	0.0011	U	0.0011	0.00016	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Toluene	0.0011	U	0.0011	0.00068	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
trans-1,2-Dichloroethene	0.0011	U	0.0011	0.00027	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
trans-1,3-Dichloropropene	0.0011	U	0.0011	0.00029	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Trichloroethene	0.0011	U	0.0011	0.00016	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Trichlorofluoromethane	0.0011	U	0.0011	0.00044	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Vinyl chloride	0.0011	U	0.0011	0.00060	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1
Xylenes, Total	0.0022	U	0.0022	0.00028	mg/Kg	☼	08/03/18 22:56	08/09/18 02:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		78 - 135	08/03/18 22:56	08/09/18 02:38	1
4-Bromofluorobenzene	98		67 - 126	08/03/18 22:56	08/09/18 02:38	1
Dibromofluoromethane (Surr)	106		61 - 149	08/03/18 22:56	08/09/18 02:38	1
Toluene-d8 (Surr)	102		73 - 121	08/03/18 22:56	08/09/18 02:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.36	U	0.36	0.0048	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
1,2,4,5-Tetrachlorobenzene	0.36	U	0.36	0.0047	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
2,2'-oxybis[1-chloropropane]	0.36	U	0.36	0.0065	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
2,3,4,6-Tetrachlorophenol	0.36	U	0.36	0.024	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
2,4,5-Trichlorophenol	0.36	U	0.36	0.012	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.018	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
2,4-Dichlorophenol	0.15	U	0.15	0.0076	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
2,4-Dimethylphenol	0.36	U	0.36	0.016	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
2,4-Dinitrophenol	0.29	U	0.29	0.18	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
2,4-Dinitrotoluene	0.073	U	0.073	0.018	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
2,6-Dinitrotoluene	0.073	U	0.073	0.012	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
2-Chloronaphthalene	0.36	U	0.36	0.017	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
2-Chlorophenol	0.36	U	0.36	0.0051	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
2-Methylnaphthalene	0.43		0.36	0.0045	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
2-Methylphenol	0.36	U	0.36	0.0058	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
2-Nitroaniline	0.36	U	0.36	0.013	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
2-Nitrophenol	0.36	U	0.36	0.012	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
3 & 4 Methylphenol	0.016	J	0.36	0.0062	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.055	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
3-Nitroaniline	0.36	U	0.36	0.020	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
4,6-Dinitro-2-methylphenol	0.29	U	0.29	0.059	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
4-Bromophenyl phenyl ether	0.36	U	0.36	0.0047	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
4-Chloro-3-methylphenol	0.36	U	0.36	0.0060	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
4-Chloroaniline	0.36	U	0.36	0.025	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
4-Chlorophenyl phenyl ether	0.36	U	0.36	0.0057	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
4-Methylphenol	0.016	J	0.36	0.0062	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
4-Nitroaniline	0.36	U	0.36	0.013	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
4-Nitrophenol	0.73	U	0.73	0.059	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Acenaphthene	0.36	U	0.36	0.026	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Acenaphthylene	0.36	U	0.36	0.0037	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Acetophenone	0.072	J	0.36	0.0058	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161874-1

Client Sample ID: MR-7_0.5_2.5

Lab Sample ID: 460-161874-1

Date Collected: 08/02/18 04:55

Matrix: Solid

Date Received: 08/03/18 19:30

Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.16	J	0.36	0.0040	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Atrazine	0.15	U	0.15	0.0091	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Benzaldehyde	0.36	U	0.36	0.016	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Benzo[a]anthracene	0.036	U	0.036	0.013	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Benzo[a]pyrene	0.036	U	0.036	0.0096	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Benzo[b]fluoranthene	0.036	U	0.036	0.0093	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Benzo[g,h,i]perylene	0.36	U	0.36	0.011	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Benzo[k]fluoranthene	0.036	U	0.036	0.0071	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Bis(2-chloroethoxy)methane	0.36	U	0.36	0.012	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Bis(2-chloroethyl)ether	0.036	U	0.036	0.0044	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Bis(2-ethylhexyl) phthalate	0.36	U	0.36	0.019	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Butyl benzyl phthalate	0.36	U	0.36	0.017	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Caprolactam	0.36	U	0.36	0.022	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Carbazole	0.36	U	0.36	0.0042	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Chrysene	0.36	U	0.36	0.0061	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Dibenz(a,h)anthracene	0.036	U	0.036	0.016	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Dibenzofuran	0.36	U	0.36	0.0051	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Diethyl phthalate	0.36	U	0.36	0.0052	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Dimethyl phthalate	0.36	U	0.36	0.0044	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Di-n-butyl phthalate	0.36	U	0.36	0.064	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Di-n-octyl phthalate	0.36	U	0.36	0.019	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Fluoranthene	0.36	U	0.36	0.0047	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Fluorene	0.63		0.36	0.0049	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Hexachlorobenzene	0.036	U	0.036	0.0053	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Hexachlorobutadiene	0.073	U	0.073	0.0077	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Hexachlorocyclopentadiene	0.36	U	0.36	0.032	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Hexachloroethane	0.036	U	0.036	0.0056	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Indeno[1,2,3-cd]pyrene	0.036	U	0.036	0.014	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Isophorone	0.15	U	0.15	0.0095	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Naphthalene	0.36	U	0.36	0.0062	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Nitrobenzene	0.036	U	0.036	0.0087	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
N-Nitrosodi-n-propylamine	0.036	U	0.036	0.0058	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
N-Nitrosodiphenylamine	0.36	U	0.36	0.0069	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Pentachlorophenol	0.29	U	0.29	0.074	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Phenanthrene	1.3		0.36	0.0063	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Phenol	0.018	J	0.36	0.0054	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1
Pyrene	0.36	U	0.36	0.0090	mg/Kg	☼	08/05/18 10:05	08/06/18 08:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		10 - 103	08/05/18 10:05	08/06/18 08:57	1
2-Fluorobiphenyl	68		38 - 95	08/05/18 10:05	08/06/18 08:57	1
2-Fluorophenol (Surr)	61		25 - 92	08/05/18 10:05	08/06/18 08:57	1
Nitrobenzene-d5 (Surr)	69		37 - 94	08/05/18 10:05	08/06/18 08:57	1
Phenol-d5 (Surr)	52		32 - 91	08/05/18 10:05	08/06/18 08:57	1
Terphenyl-d14 (Surr)	60		24 - 109	08/05/18 10:05	08/06/18 08:57	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0073	U	0.0073	0.0012	mg/Kg	☼	08/06/18 21:17	08/07/18 11:20	1
4,4'-DDE	0.0073	U	0.0073	0.00086	mg/Kg	☼	08/06/18 21:17	08/07/18 11:20	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161874-1

Client Sample ID: MR-7_0.5_2.5

Lab Sample ID: 460-161874-1

Date Collected: 08/02/18 04:55

Matrix: Solid

Date Received: 08/03/18 19:30

Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	0.0073	U	0.0073	0.0013	mg/Kg	☼	08/06/18 21:17	08/07/18 11:20	1
Aldrin	0.0073	U	0.0073	0.0011	mg/Kg	☼	08/06/18 21:17	08/07/18 11:20	1
alpha-BHC	0.0022	U	0.0022	0.00074	mg/Kg	☼	08/06/18 21:17	08/07/18 11:20	1
beta-BHC	0.0022	U	0.0022	0.00082	mg/Kg	☼	08/06/18 21:17	08/07/18 11:20	1
Chlordane (technical)	0.073	U	0.073	0.018	mg/Kg	☼	08/06/18 21:17	08/07/18 11:20	1
cis-Chlordane	0.0073	U	0.0073	0.0012	mg/Kg	☼	08/06/18 21:17	08/07/18 11:20	1
delta-BHC	0.0022	U	0.0022	0.00045	mg/Kg	☼	08/06/18 21:17	08/07/18 11:20	1
Dieldrin	0.0022	U	0.0022	0.00095	mg/Kg	☼	08/06/18 21:17	08/07/18 11:20	1
Endosulfan I	0.0073	U	0.0073	0.0011	mg/Kg	☼	08/06/18 21:17	08/07/18 11:20	1
Endosulfan II	0.0073	U	0.0073	0.0019	mg/Kg	☼	08/06/18 21:17	08/07/18 11:20	1
Endosulfan sulfate	0.0073	U	0.0073	0.00092	mg/Kg	☼	08/06/18 21:17	08/07/18 11:20	1
Endrin	0.0073	U	0.0073	0.0010	mg/Kg	☼	08/06/18 21:17	08/07/18 11:20	1
Endrin aldehyde	0.0073	U	0.0073	0.0017	mg/Kg	☼	08/06/18 21:17	08/07/18 11:20	1
Endrin ketone	0.0073	U	0.0073	0.0014	mg/Kg	☼	08/06/18 21:17	08/07/18 11:20	1
gamma-BHC (Lindane)	0.0022	U	0.0022	0.00068	mg/Kg	☼	08/06/18 21:17	08/07/18 11:20	1
Heptachlor	0.0073	U	0.0073	0.00086	mg/Kg	☼	08/06/18 21:17	08/07/18 11:20	1
Heptachlor epoxide	0.0073	U	0.0073	0.0011	mg/Kg	☼	08/06/18 21:17	08/07/18 11:20	1
Methoxychlor	0.0073	U	0.0073	0.0017	mg/Kg	☼	08/06/18 21:17	08/07/18 11:20	1
Toxaphene	0.073	U	0.073	0.026	mg/Kg	☼	08/06/18 21:17	08/07/18 11:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	88		69 - 150	08/06/18 21:17	08/07/18 11:20	1
DCB Decachlorobiphenyl	89		69 - 150	08/06/18 21:17	08/07/18 11:20	1
Tetrachloro-m-xylene	92		74 - 150	08/06/18 21:17	08/07/18 11:20	1
Tetrachloro-m-xylene	98		74 - 150	08/06/18 21:17	08/07/18 11:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.073	U	0.073	0.0097	mg/Kg	☼	08/06/18 21:23	08/07/18 15:01	1
Aroclor 1221	0.073	U	0.073	0.0097	mg/Kg	☼	08/06/18 21:23	08/07/18 15:01	1
Aroclor 1232	0.073	U	0.073	0.0097	mg/Kg	☼	08/06/18 21:23	08/07/18 15:01	1
Aroclor 1242	0.073	U	0.073	0.0097	mg/Kg	☼	08/06/18 21:23	08/07/18 15:01	1
Aroclor 1248	0.073	U	0.073	0.0097	mg/Kg	☼	08/06/18 21:23	08/07/18 15:01	1
Aroclor 1254	0.073	U	0.073	0.010	mg/Kg	☼	08/06/18 21:23	08/07/18 15:01	1
Aroclor 1260	0.073	U	0.073	0.010	mg/Kg	☼	08/06/18 21:23	08/07/18 15:01	1
Aroclor-1262	0.073	U	0.073	0.010	mg/Kg	☼	08/06/18 21:23	08/07/18 15:01	1
Aroclor 1268	0.073	U	0.073	0.010	mg/Kg	☼	08/06/18 21:23	08/07/18 15:01	1
Polychlorinated biphenyls, Total	0.073	U	0.073	0.010	mg/Kg	☼	08/06/18 21:23	08/07/18 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	110		53 - 150	08/06/18 21:23	08/07/18 15:01	1
DCB Decachlorobiphenyl	102		53 - 150	08/06/18 21:23	08/07/18 15:01	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.036	U	0.036	0.0077	mg/Kg	☼	08/06/18 21:07	08/07/18 09:47	1
2,4-D	0.036	U	0.036	0.013	mg/Kg	☼	08/06/18 21:07	08/07/18 09:47	1
Silvex (2,4,5-TP)	0.036	U	0.036	0.0038	mg/Kg	☼	08/06/18 21:07	08/07/18 09:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	137		80 - 150	08/06/18 21:07	08/07/18 09:47	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161874-1

Client Sample ID: MR-7_0.5_2.5

Date Collected: 08/02/18 04:55

Date Received: 08/03/18 19:30

Lab Sample ID: 460-161874-1

Matrix: Solid

Percent Solids: 91.5

Method: 8151A - Herbicides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	134		80 - 150	08/06/18 21:07	08/07/18 09:47	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11300		16.7	5.7	mg/Kg	☼	08/05/18 23:16	08/06/18 14:55	20
Antimony	0.83	U	0.83	0.24	mg/Kg	☼	08/05/18 23:16	08/06/18 14:55	20
Arsenic	3.4		0.83	0.27	mg/Kg	☼	08/05/18 23:16	08/06/18 14:55	20
Barium	75.7		1.7	0.55	mg/Kg	☼	08/05/18 23:16	08/06/18 14:55	20
Beryllium	0.64		0.33	0.13	mg/Kg	☼	08/05/18 23:16	08/06/18 14:55	20
Cadmium	0.29	J	0.83	0.28	mg/Kg	☼	08/05/18 23:16	08/06/18 14:55	20
Calcium	57100		83.4	24.8	mg/Kg	☼	08/05/18 23:16	08/06/18 14:55	20
Chromium	23.4		1.7	0.50	mg/Kg	☼	08/05/18 23:16	08/06/18 14:55	20
Cobalt	7.2		1.7	0.50	mg/Kg	☼	08/05/18 23:16	08/06/18 14:55	20
Copper	21.3		1.7	0.48	mg/Kg	☼	08/05/18 23:16	08/06/18 14:55	20
Iron	16600		50.1	17.5	mg/Kg	☼	08/05/18 23:16	08/06/18 14:55	20
Lead	82.4		0.50	0.16	mg/Kg	☼	08/05/18 23:16	08/06/18 14:55	20
Magnesium	34200		83.4	23.2	mg/Kg	☼	08/05/18 23:16	08/06/18 14:55	20
Manganese	319		3.3	1.0	mg/Kg	☼	08/05/18 23:16	08/06/18 14:55	20
Nickel	16.1		1.7	0.54	mg/Kg	☼	08/05/18 23:16	08/06/18 14:55	20
Potassium	2810		83.4	30.0	mg/Kg	☼	08/05/18 23:16	08/06/18 14:55	20
Selenium	4.2	U	4.2	0.24	mg/Kg	☼	08/05/18 23:16	08/06/18 14:55	20
Silver	0.83	U	0.83	0.52	mg/Kg	☼	08/05/18 23:16	08/06/18 14:55	20
Sodium	354		83.4	26.1	mg/Kg	☼	08/05/18 23:16	08/06/18 14:55	20
Thallium	0.15	J	0.33	0.10	mg/Kg	☼	08/05/18 23:16	08/06/18 14:55	20
Vanadium	30.8		1.7	0.47	mg/Kg	☼	08/05/18 23:16	08/06/18 14:55	20
Zinc	175		6.7	3.3	mg/Kg	☼	08/05/18 23:16	08/06/18 14:55	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060		0.018	0.011	mg/Kg	☼	08/08/18 04:04	08/08/18 09:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.14	J B	0.25	0.066	mg/Kg	☼	08/05/18 13:06	08/06/18 11:17	1

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161874-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (78-135)	BFB (67-126)	DBFM (61-149)	TOL (73-121)
460-161874-1	MR-7_0.5_2.5	111	98	106	102
LB3 460-542129/1-A	Method Blank	95	93	100	95
LCS 460-542573/3	Lab Control Sample	97	96	99	94
LCS 460-543232/3	Lab Control Sample	110	97	100	100
LCSD 460-542573/4	Lab Control Sample Dup	94	104	103	106
LCSD 460-543232/4	Lab Control Sample Dup	109	98	101	102
MB 460-542573/8	Method Blank	98	93	100	96
MB 460-543232/7	Method Blank	111	99	105	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (10-103)	FBP (38-95)	2FP (25-92)	NBZ (37-94)	PHL (32-91)	TPHL (24-109)
460-161874-1	MR-7_0.5_2.5	73	68	61	69	52	60
460-161874-1 MS	MR-7_0.5_2.5	61	54	51	49	45	54
460-161874-1 MSD	MR-7_0.5_2.5	60	54	53	50	46	57
LCS 460-542306/2-A	Lab Control Sample	92	80	84	77	74	86
LCS 460-542306/3-A	Lab Control Sample	92	81	83	80	63	91
MB 460-542306/1-A	Method Blank	89	85	89	84	69	88

Surrogate Legend

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

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1 (69-150)	DCBP2 (69-150)	TCX1 (74-150)	TCX2 (74-150)
460-161874-1	MR-7_0.5_2.5	88	89	92	98
460-161874-1 MS	MR-7_0.5_2.5	94	96	99	100
460-161874-1 MSD	MR-7_0.5_2.5	94	91	96	99
LCS 460-542658/2-A	Lab Control Sample	78	77	79	79
MB 460-542658/1-A	Method Blank	90	89	90	92

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161874-1

TCX = Tetrachloro-m-xylene

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1 (53-150)	DCBP2 (53-150)
460-161874-1	MR-7_0.5_2.5	110	102
460-161978-D-1-A MS	Matrix Spike	110	100
460-161978-D-1-B MSD	Matrix Spike Duplicate	110	96
LCS 460-542660/2-A	Lab Control Sample	109	108
MB 460-542660/1-A	Method Blank	100	103

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1 (80-150)	DCPAA2 (80-150)
460-161592-A-2-B MS	Matrix Spike	134	154 *
460-161592-A-2-C MSD	Matrix Spike Duplicate	126	146
460-161874-1	MR-7_0.5_2.5	137	134
LCS 460-542654/2-A	Lab Control Sample	127	145
MB 460-542654/1-A	Method Blank	146	127

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

ANALYTICAL REPORT

Job Number: 460-161927-1

Job Description: Taconic Inwood

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, NY 11749
Attention: Ms. Jessica Taylor

Melissa Haas

Approved for release.
Melissa Haas
Project Manager I
11/16/2018 11:31 AM

Melissa Haas, Project Manager I
777 New Durham Road, Edison, NJ, 08817
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11/16/2018
Revision: 1

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TestAmerica Laboratories, Inc.

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Job Number: 460-161927-1

Job Description: Taconic Inwood

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

A handwritten signature in dark ink that reads "Melissa Haas". The signature is written in a cursive, flowing style. Below the signature is a solid horizontal line.

Approved for release.
Melissa Haas
Project Manager I
11/16/2018 11:31 AM

Melissa Haas

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CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: Taconic Inwood

Report Number: 460-161927-1

Revised Report #1

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

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

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

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

REVISED REPORT #1

The following report required a revision: 460-161927-1. Details are as follows: The client requested the addition of NY Part 375 compounds for VOCs, SVOCs, and Pesticides.

RECEIPT

The samples were received on 08/02/2018; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.1 C.

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

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MR-9 (460-161927-1), MR-14 (460-161927-2) and MR-12 (460-161927-3) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 08/08/2018.

The continuing calibration verification (CCV) associated with batch 460-542935 recovered above the upper control limit for Methyl acetate. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported.

No difficulties were encountered during the volatiles analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples MR-9 (460-161927-1), MR-14 (460-161927-2) and MR-12 (460-161927-3) were analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 08/05/2018 and analyzed on 08/06/2018 and 08/07/2018.

The continuing calibration verification (CCV) analyzed in batch 460-542373 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol, Hexachlorocyclopentadiene and Di-n-octyl phthalate. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The surrogate recovery for the blank associated with preparation batch 460-542311 and analytical batch 460-542373 was outside the upper control limits.

The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 460-542311 and analytical batch 460-542373 recovered outside control limits for the following analyte(s): Caprolactam and Benzaldehyde. These analytes have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified

Surrogates recoveries for the following laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) associated with batch 460-542311 were outside limits. Sample has been reported.

Surrogate recovery for the following samples were outside the upper control limit: MR-9 (460-161927-1) and MR-14 (460-161927-2). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 460-542311 and analytical batch 460-542373 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine and 4-Chloroaniline.

The continuing calibration verification (CCV) associated with batch 460-542547 recovered above the upper control limit for 4-Nitrophenol and Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-542547 recovered above the upper control limit for Caprolactam. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The following sample was diluted due to the nature of the sample matrix: MR-12 (460-161927-3). Elevated reporting limits (RLs) are provided.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

PESTICIDES

Samples MR-9 (460-161927-1), MR-14 (460-161927-2) and MR-12 (460-161927-3) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 08/06/2018 and analyzed on 08/07/2018.

No difficulties were encountered during the pesticides analysis.

All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples MR-9 (460-161927-1), MR-14 (460-161927-2) and MR-12 (460-161927-3) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 08/06/2018 and analyzed on 08/07/2018.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

CHLORINATED HERBICIDES

Samples MR-9 (460-161927-1), MR-14 (460-161927-2) and MR-12 (460-161927-3) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 08/06/2018 and analyzed on 08/07/2018.

The laboratory control sample (LCS) for preparation batch 460-542650 and analytical batch 460-542728 recovered outside control limits for the following analytes: 2,4-D. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The closing continuing calibration verification (CCVC) associated with batch 460-542728 recovered above the upper control limit for 2,4-D, Silvex (2,4,5-TP) and 2,4,5-T. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other difficulties were encountered during the herbicides analysis.

All other quality control parameters were within the acceptance limits.

METALS

Samples MR-9 (460-161927-1), MR-14 (460-161927-2) and MR-12 (460-161927-3) were analyzed for Metals in accordance with 6020B. The samples were prepared on 08/06/2018 and analyzed on 08/07/2018 and 08/08/2018.

Calcium, Magnesium and Sodium failed the recovery criteria low for the MS of sample 460-161384-9 in batch 460-542736.

Refer to the QC report for details.

Arsenic and Selenium exceeded the RPD limit for the duplicate of sample 460-161384-9. Refer to the QC report for details.

Samples MR-9 (460-161927-1)[20X] and MR-14 (460-161927-2)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples MR-9 (460-161927-1), MR-14 (460-161927-2) and MR-12 (460-161927-3) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 08/07/2018.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

TOTAL CYANIDE

Samples MR-9 (460-161927-1), MR-14 (460-161927-2) and MR-12 (460-161927-3) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The samples were prepared on 08/05/2018 and analyzed on 08/06/2018.

The method blank for 542519 contained Cyanide above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Cyanide, Total failed the recovery criteria high for the MS of sample MR-9MS (460-161927-1) in batch 460-542519.

Cyanide, Total failed the recovery criteria high for the MSD of sample MR-9MSD (460-161927-1) in batch 460-542519.

Refer to the QC report for details.

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

No other difficulties were encountered during the cyanide analysis.

All other quality control parameters were within the acceptance limits.

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161927-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-161927-1	MR-9	Water	08/02/18 08:30	08/02/18 20:00
460-161927-2	MR-14	Water	08/02/18 09:30	08/02/18 20:00
460-161927-3	MR-12	Water	08/02/18 11:00	08/02/18 20:00

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161927-1

Client Sample ID: MR-9

Lab Sample ID: 460-161927-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	8.2		1.0	0.33	ug/L	1		8260C	Total/NA
Methylene Chloride	0.52	J	1.0	0.32	ug/L	1		8260C	Total/NA
Aluminum	149		40.0	15.0	ug/L	2		6020B	Total/NA
Antimony	2.1		2.0	0.62	ug/L	2		6020B	Total/NA
Arsenic	2.2		2.0	0.77	ug/L	2		6020B	Total/NA
Barium	182		4.0	1.1	ug/L	2		6020B	Total/NA
Calcium	101000		200	67.6	ug/L	2		6020B	Total/NA
Copper	2.4	J	4.0	1.9	ug/L	2		6020B	Total/NA
Iron	857		120	45.7	ug/L	2		6020B	Total/NA
Lead	0.73	J	1.2	0.37	ug/L	2		6020B	Total/NA
Magnesium	40500		200	65.7	ug/L	2		6020B	Total/NA
Manganese	424		8.0	2.7	ug/L	2		6020B	Total/NA
Nickel	2.9	J	4.0	1.3	ug/L	2		6020B	Total/NA
Potassium	34900		200	64.9	ug/L	2		6020B	Total/NA
Selenium	11.7		10.0	0.69	ug/L	2		6020B	Total/NA
Sodium	615000		2000	757	ug/L	20		6020B	Total/NA
Vanadium	1.4	J	4.0	1.2	ug/L	2		6020B	Total/NA
Zinc	6.4	J	16.0	5.4	ug/L	2		6020B	Total/NA
Cyanide, Total	5.5	J B	10.0	2.0	ug/L	1		9012B	Total/NA

Client Sample ID: MR-14

Lab Sample ID: 460-161927-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	7.3		1.0	0.33	ug/L	1		8260C	Total/NA
Dichlorobromomethane	0.40	J	1.0	0.34	ug/L	1		8260C	Total/NA
Methylene Chloride	0.36	J	1.0	0.32	ug/L	1		8260C	Total/NA
Toluene	0.41	J	1.0	0.38	ug/L	1		8260C	Total/NA
Aluminum	419		40.0	15.0	ug/L	2		6020B	Total/NA
Antimony	2.4		2.0	0.62	ug/L	2		6020B	Total/NA
Arsenic	2.3		2.0	0.77	ug/L	2		6020B	Total/NA
Barium	274		4.0	1.1	ug/L	2		6020B	Total/NA
Calcium	264000		200	67.6	ug/L	2		6020B	Total/NA
Chromium	3.1	J	4.0	1.3	ug/L	2		6020B	Total/NA
Cobalt	2.5	J	4.0	1.3	ug/L	2		6020B	Total/NA
Copper	3.3	J	4.0	1.9	ug/L	2		6020B	Total/NA
Iron	1250		120	45.7	ug/L	2		6020B	Total/NA
Lead	2.9		1.2	0.37	ug/L	2		6020B	Total/NA
Magnesium	127000		200	65.7	ug/L	2		6020B	Total/NA
Manganese	374		8.0	2.7	ug/L	2		6020B	Total/NA
Nickel	6.5		4.0	1.3	ug/L	2		6020B	Total/NA
Potassium	64600		200	64.9	ug/L	2		6020B	Total/NA
Selenium	1.4	J	10.0	0.69	ug/L	2		6020B	Total/NA
Sodium	901000		2000	757	ug/L	20		6020B	Total/NA
Vanadium	1.8	J	4.0	1.2	ug/L	2		6020B	Total/NA
Zinc	10.3	J	16.0	5.4	ug/L	2		6020B	Total/NA
Cyanide, Total	7.4	J B	10.0	2.0	ug/L	1		9012B	Total/NA

Client Sample ID: MR-12

Lab Sample ID: 460-161927-3

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161927-1

Client Sample ID: MR-12 (Continued)

Lab Sample ID: 460-161927-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	18		1.0	0.37	ug/L	1		8260C	Total/NA
1,3,5-Trimethylbenzene	6.7		1.0	0.33	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	2.6	J	5.0	1.9	ug/L	1		8260C	Total/NA
Acetone	15		5.0	5.0	ug/L	1		8260C	Total/NA
Benzene	20		1.0	0.43	ug/L	1		8260C	Total/NA
Chloroform	2.1		1.0	0.33	ug/L	1		8260C	Total/NA
Ethylbenzene	6.0		1.0	0.30	ug/L	1		8260C	Total/NA
Isopropylbenzene	0.80	J	1.0	0.34	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	0.99	J	1.0	0.47	ug/L	1		8260C	Total/NA
Methylene Chloride	1.0		1.0	0.32	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	36		1.0	0.30	ug/L	1		8260C	Total/NA
o-Xylene	29		1.0	0.36	ug/L	1		8260C	Total/NA
Styrene	14		1.0	0.42	ug/L	1		8260C	Total/NA
Toluene	23		1.0	0.38	ug/L	1		8260C	Total/NA
Xylenes, Total	65		2.0	0.65	ug/L	1		8260C	Total/NA
2-Methylnaphthalene	32	J	50	5.5	ug/L	5		8270D	Total/NA
2-Methylphenol	170		50	1.3	ug/L	5		8270D	Total/NA
3 & 4 Methylphenol	140		50	1.2	ug/L	5		8270D	Total/NA
4-Methylphenol	140		50	1.2	ug/L	5		8270D	Total/NA
Acenaphthene	21	J	50	5.4	ug/L	5		8270D	Total/NA
Carbazole	13	J	50	3.4	ug/L	5		8270D	Total/NA
Dibenzofuran	11	J	50	5.5	ug/L	5		8270D	Total/NA
Fluorene	13	J	50	4.6	ug/L	5		8270D	Total/NA
Naphthalene	570		50	5.7	ug/L	5		8270D	Total/NA
Phenanthrene	8.7	J	50	2.9	ug/L	5		8270D	Total/NA
Aluminum	7010		40.0	15.0	ug/L	2		6020B	Total/NA
Antimony	2.1		2.0	0.62	ug/L	2		6020B	Total/NA
Arsenic	6.0		2.0	0.77	ug/L	2		6020B	Total/NA
Barium	238		4.0	1.1	ug/L	2		6020B	Total/NA
Calcium	106000		200	67.6	ug/L	2		6020B	Total/NA
Chromium	23.5		4.0	1.3	ug/L	2		6020B	Total/NA
Cobalt	13.0		4.0	1.3	ug/L	2		6020B	Total/NA
Copper	140		4.0	1.9	ug/L	2		6020B	Total/NA
Iron	12600		120	45.7	ug/L	2		6020B	Total/NA
Lead	5.4		1.2	0.37	ug/L	2		6020B	Total/NA
Magnesium	42800		200	65.7	ug/L	2		6020B	Total/NA
Manganese	634		8.0	2.7	ug/L	2		6020B	Total/NA
Nickel	51.1		4.0	1.3	ug/L	2		6020B	Total/NA
Potassium	21500		200	64.9	ug/L	2		6020B	Total/NA
Silver	22.8		2.0	1.4	ug/L	2		6020B	Total/NA
Sodium	124000		200	75.7	ug/L	2		6020B	Total/NA
Vanadium	11.8		4.0	1.2	ug/L	2		6020B	Total/NA
Zinc	105		16.0	5.4	ug/L	2		6020B	Total/NA
Cyanide, Total	41.8	B	10.0	2.0	ug/L	1		9012B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Method Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161927-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
8081B	Organochlorine Pesticides (GC)	SW846	TAL EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL EDI
8151A	Herbicides (GC)	SW846	TAL EDI
6020B	Metals (ICP/MS)	SW846	TAL EDI
7470A	Mercury (CVAA)	SW846	TAL EDI
9012B	Cyanide, Total and/or Amenable	SW846	TAL EDI
3010A	Preparation, Total Metals	SW846	TAL EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI
7470A	Preparation, Mercury	SW846	TAL EDI
8151A	Extraction (Herbicides)	SW846	TAL EDI
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL EDI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161927-1

Client Sample ID: MR-9

Date Collected: 08/02/18 08:30

Date Received: 08/02/18 20:00

Lab Sample ID: 460-161927-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			08/08/18 05:14	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/08/18 05:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			08/08/18 05:14	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			08/08/18 05:14	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/08/18 05:14	1
1,1-Dichloroethene	1.0	U	1.0	0.12	ug/L			08/08/18 05:14	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			08/08/18 05:14	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			08/08/18 05:14	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			08/08/18 05:14	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			08/08/18 05:14	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			08/08/18 05:14	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			08/08/18 05:14	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			08/08/18 05:14	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			08/08/18 05:14	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			08/08/18 05:14	1
1,4-Dichlorobenzene	1.0	U	1.0	0.76	ug/L			08/08/18 05:14	1
1,4-Dioxane	50	U	50	28	ug/L			08/08/18 05:14	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			08/08/18 05:14	1
2-Hexanone	5.0	U	5.0	2.9	ug/L			08/08/18 05:14	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.7	ug/L			08/08/18 05:14	1
Acetone	5.0	U	5.0	5.0	ug/L			08/08/18 05:14	1
Benzene	1.0	U	1.0	0.43	ug/L			08/08/18 05:14	1
Bromoform	1.0	U	1.0	0.54	ug/L			08/08/18 05:14	1
Bromomethane	1.0	U	1.0	1.0	ug/L			08/08/18 05:14	1
Carbon disulfide	1.0	U	1.0	0.16	ug/L			08/08/18 05:14	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			08/08/18 05:14	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			08/08/18 05:14	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			08/08/18 05:14	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			08/08/18 05:14	1
Chloroethane	1.0	U	1.0	0.32	ug/L			08/08/18 05:14	1
Chloroform	8.2		1.0	0.33	ug/L			08/08/18 05:14	1
Chloromethane	1.0	U	1.0	0.14	ug/L			08/08/18 05:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			08/08/18 05:14	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			08/08/18 05:14	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			08/08/18 05:14	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			08/08/18 05:14	1
Dichlorodifluoromethane	1.0	U	1.0	0.12	ug/L			08/08/18 05:14	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			08/08/18 05:14	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			08/08/18 05:14	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			08/08/18 05:14	1
Methyl acetate	5.0	U	5.0	0.31	ug/L			08/08/18 05:14	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			08/08/18 05:14	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			08/08/18 05:14	1
Methylene Chloride	0.52	J	1.0	0.32	ug/L			08/08/18 05:14	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			08/08/18 05:14	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			08/08/18 05:14	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			08/08/18 05:14	1
o-Xylene	1.0	U	1.0	0.36	ug/L			08/08/18 05:14	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			08/08/18 05:14	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161927-1

Client Sample ID: MR-9

Lab Sample ID: 460-161927-1

Date Collected: 08/02/18 08:30

Matrix: Water

Date Received: 08/02/18 20:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0	0.42	ug/L			08/08/18 05:14	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			08/08/18 05:14	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			08/08/18 05:14	1
Toluene	1.0	U	1.0	0.38	ug/L			08/08/18 05:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			08/08/18 05:14	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			08/08/18 05:14	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			08/08/18 05:14	1
Trichlorofluoromethane	1.0	U	1.0	0.14	ug/L			08/08/18 05:14	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			08/08/18 05:14	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			08/08/18 05:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		74 - 132		08/08/18 05:14	1
4-Bromofluorobenzene	103		77 - 124		08/08/18 05:14	1
Dibromofluoromethane (Surr)	98		72 - 131		08/08/18 05:14	1
Toluene-d8 (Surr)	100		80 - 120		08/08/18 05:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		08/05/18 10:31	08/06/18 07:03	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		08/05/18 10:31	08/06/18 07:03	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		08/05/18 10:31	08/06/18 07:03	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		08/05/18 10:31	08/06/18 07:03	1
2,4,5-Trichlorophenol	10	U	10	0.28	ug/L		08/05/18 10:31	08/06/18 07:03	1
2,4,6-Trichlorophenol	10	U	10	0.30	ug/L		08/05/18 10:31	08/06/18 07:03	1
2,4-Dichlorophenol	10	U	10	0.42	ug/L		08/05/18 10:31	08/06/18 07:03	1
2,4-Dimethylphenol	10	U	10	0.24	ug/L		08/05/18 10:31	08/06/18 07:03	1
2,4-Dinitrophenol	20	U	20	14	ug/L		08/05/18 10:31	08/06/18 07:03	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		08/05/18 10:31	08/06/18 07:03	1
2,6-Dinitrotoluene	2.0	U	2.0	0.39	ug/L		08/05/18 10:31	08/06/18 07:03	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		08/05/18 10:31	08/06/18 07:03	1
2-Chlorophenol	10	U	10	0.38	ug/L		08/05/18 10:31	08/06/18 07:03	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		08/05/18 10:31	08/06/18 07:03	1
2-Methylphenol	10	U	10	0.26	ug/L		08/05/18 10:31	08/06/18 07:03	1
2-Nitroaniline	10	U	10	0.47	ug/L		08/05/18 10:31	08/06/18 07:03	1
2-Nitrophenol	10	U	10	0.75	ug/L		08/05/18 10:31	08/06/18 07:03	1
3 & 4 Methylphenol	10	U	10	0.24	ug/L		08/05/18 10:31	08/06/18 07:03	1
3,3'-Dichlorobenzidine	10	U *	10	1.4	ug/L		08/05/18 10:31	08/06/18 07:03	1
3-Nitroaniline	10	U	10	0.96	ug/L		08/05/18 10:31	08/06/18 07:03	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		08/05/18 10:31	08/06/18 07:03	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		08/05/18 10:31	08/06/18 07:03	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		08/05/18 10:31	08/06/18 07:03	1
4-Chloroaniline	10	U *	10	1.9	ug/L		08/05/18 10:31	08/06/18 07:03	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		08/05/18 10:31	08/06/18 07:03	1
4-Methylphenol	10	U	10	0.24	ug/L		08/05/18 10:31	08/06/18 07:03	1
4-Nitroaniline	10	U	10	0.54	ug/L		08/05/18 10:31	08/06/18 07:03	1
4-Nitrophenol	20	U	20	0.69	ug/L		08/05/18 10:31	08/06/18 07:03	1
Acenaphthene	10	U	10	1.1	ug/L		08/05/18 10:31	08/06/18 07:03	1
Acenaphthylene	10	U	10	0.82	ug/L		08/05/18 10:31	08/06/18 07:03	1
Acetophenone	10	U	10	0.79	ug/L		08/05/18 10:31	08/06/18 07:03	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161927-1

Client Sample ID: MR-9

Date Collected: 08/02/18 08:30

Date Received: 08/02/18 20:00

Lab Sample ID: 460-161927-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	10	U	10	0.63	ug/L		08/05/18 10:31	08/06/18 07:03	1
Atrazine	2.0	U	2.0	1.3	ug/L		08/05/18 10:31	08/06/18 07:03	1
Benzaldehyde	10	U *	10	0.59	ug/L		08/05/18 10:31	08/06/18 07:03	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		08/05/18 10:31	08/06/18 07:03	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		08/05/18 10:31	08/06/18 07:03	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		08/05/18 10:31	08/06/18 07:03	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		08/05/18 10:31	08/06/18 07:03	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		08/05/18 10:31	08/06/18 07:03	1
Bis(2-chloroethoxy)methane	10	U	10	0.24	ug/L		08/05/18 10:31	08/06/18 07:03	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.30	ug/L		08/05/18 10:31	08/06/18 07:03	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		08/05/18 10:31	08/06/18 07:03	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		08/05/18 10:31	08/06/18 07:03	1
Caprolactam	10	U *	10	0.68	ug/L		08/05/18 10:31	08/06/18 07:03	1
Carbazole	10	U	10	0.68	ug/L		08/05/18 10:31	08/06/18 07:03	1
Chrysene	2.0	U	2.0	0.91	ug/L		08/05/18 10:31	08/06/18 07:03	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		08/05/18 10:31	08/06/18 07:03	1
Dibenzofuran	10	U	10	1.1	ug/L		08/05/18 10:31	08/06/18 07:03	1
Diethyl phthalate	10	U	10	0.98	ug/L		08/05/18 10:31	08/06/18 07:03	1
Dimethyl phthalate	10	U	10	0.77	ug/L		08/05/18 10:31	08/06/18 07:03	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		08/05/18 10:31	08/06/18 07:03	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		08/05/18 10:31	08/06/18 07:03	1
Fluoranthene	10	U	10	0.84	ug/L		08/05/18 10:31	08/06/18 07:03	1
Fluorene	10	U	10	0.91	ug/L		08/05/18 10:31	08/06/18 07:03	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		08/05/18 10:31	08/06/18 07:03	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		08/05/18 10:31	08/06/18 07:03	1
Hexachlorocyclopentadiene	10	U	10	1.7	ug/L		08/05/18 10:31	08/06/18 07:03	1
Hexachloroethane	2.0	U	2.0	1.2	ug/L		08/05/18 10:31	08/06/18 07:03	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		08/05/18 10:31	08/06/18 07:03	1
Isophorone	10	U	10	0.80	ug/L		08/05/18 10:31	08/06/18 07:03	1
Naphthalene	10	U	10	1.1	ug/L		08/05/18 10:31	08/06/18 07:03	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		08/05/18 10:31	08/06/18 07:03	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		08/05/18 10:31	08/06/18 07:03	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		08/05/18 10:31	08/06/18 07:03	1
Pentachlorophenol	20	U	20	1.4	ug/L		08/05/18 10:31	08/06/18 07:03	1
Phenanthrene	10	U	10	0.58	ug/L		08/05/18 10:31	08/06/18 07:03	1
Phenol	10	U	10	0.29	ug/L		08/05/18 10:31	08/06/18 07:03	1
Pyrene	10	U	10	1.6	ug/L		08/05/18 10:31	08/06/18 07:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	131		26 - 139	08/05/18 10:31	08/06/18 07:03	1
2-Fluorobiphenyl	116	*	45 - 107	08/05/18 10:31	08/06/18 07:03	1
2-Fluorophenol (Surr)	59	*	25 - 58	08/05/18 10:31	08/06/18 07:03	1
Nitrobenzene-d5 (Surr)	135	*	51 - 108	08/05/18 10:31	08/06/18 07:03	1
Phenol-d5 (Surr)	34		14 - 39	08/05/18 10:31	08/06/18 07:03	1
Terphenyl-d14 (Surr)	104		40 - 148	08/05/18 10:31	08/06/18 07:03	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		08/06/18 09:21	08/07/18 15:28	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		08/06/18 09:21	08/07/18 15:28	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161927-1

Client Sample ID: MR-9

Date Collected: 08/02/18 08:30

Date Received: 08/02/18 20:00

Lab Sample ID: 460-161927-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		08/06/18 09:21	08/07/18 15:28	1
Aldrin	0.020	U	0.020	0.0030	ug/L		08/06/18 09:21	08/07/18 15:28	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		08/06/18 09:21	08/07/18 15:28	1
beta-BHC	0.020	U	0.020	0.0040	ug/L		08/06/18 09:21	08/07/18 15:28	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		08/06/18 09:21	08/07/18 15:28	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		08/06/18 09:21	08/07/18 15:28	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		08/06/18 09:21	08/07/18 15:28	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		08/06/18 09:21	08/07/18 15:28	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		08/06/18 09:21	08/07/18 15:28	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		08/06/18 09:21	08/07/18 15:28	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		08/06/18 09:21	08/07/18 15:28	1
Endrin	0.020	U	0.020	0.0040	ug/L		08/06/18 09:21	08/07/18 15:28	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		08/06/18 09:21	08/07/18 15:28	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		08/06/18 09:21	08/07/18 15:28	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		08/06/18 09:21	08/07/18 15:28	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		08/06/18 09:21	08/07/18 15:28	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		08/06/18 09:21	08/07/18 15:28	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		08/06/18 09:21	08/07/18 15:28	1
Toxaphene	0.50	U	0.50	0.11	ug/L		08/06/18 09:21	08/07/18 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	20		10 - 150	08/06/18 09:21	08/07/18 15:28	1
DCB Decachlorobiphenyl	20		10 - 150	08/06/18 09:21	08/07/18 15:28	1
Tetrachloro-m-xylene	31		12 - 136	08/06/18 09:21	08/07/18 15:28	1
Tetrachloro-m-xylene	31		12 - 136	08/06/18 09:21	08/07/18 15:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		08/06/18 09:25	08/07/18 13:19	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		08/06/18 09:25	08/07/18 13:19	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		08/06/18 09:25	08/07/18 13:19	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		08/06/18 09:25	08/07/18 13:19	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		08/06/18 09:25	08/07/18 13:19	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		08/06/18 09:25	08/07/18 13:19	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		08/06/18 09:25	08/07/18 13:19	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		08/06/18 09:25	08/07/18 13:19	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		08/06/18 09:25	08/07/18 13:19	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		08/06/18 09:25	08/07/18 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	44		10 - 150	08/06/18 09:25	08/07/18 13:19	1
DCB Decachlorobiphenyl	47		10 - 150	08/06/18 09:25	08/07/18 13:19	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	1.2	U	1.2	0.12	ug/L		08/06/18 20:49	08/07/18 09:24	1
2,4-D	1.2	U	1.2	0.13	ug/L		08/06/18 20:49	08/07/18 09:24	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		08/06/18 20:49	08/07/18 09:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	99		54 - 150	08/06/18 20:49	08/07/18 09:24	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161927-1

Client Sample ID: MR-9

Date Collected: 08/02/18 08:30

Date Received: 08/02/18 20:00

Lab Sample ID: 460-161927-1

Matrix: Water

Method: 8151A - Herbicides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	101		54 - 150	08/06/18 20:49	08/07/18 09:24	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	149		40.0	15.0	ug/L		08/06/18 02:30	08/07/18 04:27	2
Antimony	2.1		2.0	0.62	ug/L		08/06/18 02:30	08/08/18 04:06	2
Arsenic	2.2		2.0	0.77	ug/L		08/06/18 02:30	08/07/18 04:27	2
Barium	182		4.0	1.1	ug/L		08/06/18 02:30	08/07/18 04:27	2
Beryllium	0.80	U	0.80	0.26	ug/L		08/06/18 02:30	08/07/18 04:27	2
Cadmium	2.0	U	2.0	0.61	ug/L		08/06/18 02:30	08/07/18 04:27	2
Calcium	101000		200	67.6	ug/L		08/06/18 02:30	08/07/18 04:27	2
Chromium	4.0	U	4.0	1.3	ug/L		08/06/18 02:30	08/07/18 04:27	2
Cobalt	4.0	U	4.0	1.3	ug/L		08/06/18 02:30	08/08/18 04:06	2
Copper	2.4	J	4.0	1.9	ug/L		08/06/18 02:30	08/08/18 04:06	2
Iron	857		120	45.7	ug/L		08/06/18 02:30	08/07/18 04:27	2
Lead	0.73	J	1.2	0.37	ug/L		08/06/18 02:30	08/07/18 04:27	2
Magnesium	40500		200	65.7	ug/L		08/06/18 02:30	08/07/18 04:27	2
Manganese	424		8.0	2.7	ug/L		08/06/18 02:30	08/07/18 04:27	2
Nickel	2.9	J	4.0	1.3	ug/L		08/06/18 02:30	08/08/18 04:06	2
Potassium	34900		200	64.9	ug/L		08/06/18 02:30	08/07/18 04:27	2
Selenium	11.7		10.0	0.69	ug/L		08/06/18 02:30	08/07/18 04:27	2
Silver	2.0	U	2.0	1.4	ug/L		08/06/18 02:30	08/07/18 04:27	2
Sodium	615000		2000	757	ug/L		08/06/18 02:30	08/07/18 04:34	20
Thallium	0.80	U	0.80	0.24	ug/L		08/06/18 02:30	08/07/18 04:27	2
Vanadium	1.4	J	4.0	1.2	ug/L		08/06/18 02:30	08/07/18 04:27	2
Zinc	6.4	J	16.0	5.4	ug/L		08/06/18 02:30	08/07/18 04:27	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		08/07/18 11:52	08/07/18 16:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	5.5	J B	10.0	2.0	ug/L		08/05/18 13:12	08/06/18 10:42	1

Client Sample ID: MR-14

Date Collected: 08/02/18 09:30

Date Received: 08/02/18 20:00

Lab Sample ID: 460-161927-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			08/08/18 05:38	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/08/18 05:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			08/08/18 05:38	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			08/08/18 05:38	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/08/18 05:38	1
1,1-Dichloroethene	1.0	U	1.0	0.12	ug/L			08/08/18 05:38	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			08/08/18 05:38	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			08/08/18 05:38	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			08/08/18 05:38	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161927-1

Client Sample ID: MR-14

Date Collected: 08/02/18 09:30

Date Received: 08/02/18 20:00

Lab Sample ID: 460-161927-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			08/08/18 05:38	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			08/08/18 05:38	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			08/08/18 05:38	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			08/08/18 05:38	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			08/08/18 05:38	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			08/08/18 05:38	1
1,4-Dichlorobenzene	1.0	U	1.0	0.76	ug/L			08/08/18 05:38	1
1,4-Dioxane	50	U	50	28	ug/L			08/08/18 05:38	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			08/08/18 05:38	1
2-Hexanone	5.0	U	5.0	2.9	ug/L			08/08/18 05:38	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.7	ug/L			08/08/18 05:38	1
Acetone	5.0	U	5.0	5.0	ug/L			08/08/18 05:38	1
Benzene	1.0	U	1.0	0.43	ug/L			08/08/18 05:38	1
Bromoform	1.0	U	1.0	0.54	ug/L			08/08/18 05:38	1
Bromomethane	1.0	U	1.0	1.0	ug/L			08/08/18 05:38	1
Carbon disulfide	1.0	U	1.0	0.16	ug/L			08/08/18 05:38	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			08/08/18 05:38	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			08/08/18 05:38	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			08/08/18 05:38	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			08/08/18 05:38	1
Chloroethane	1.0	U	1.0	0.32	ug/L			08/08/18 05:38	1
Chloroform	7.3		1.0	0.33	ug/L			08/08/18 05:38	1
Chloromethane	1.0	U	1.0	0.14	ug/L			08/08/18 05:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			08/08/18 05:38	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			08/08/18 05:38	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			08/08/18 05:38	1
Dichlorobromomethane	0.40	J	1.0	0.34	ug/L			08/08/18 05:38	1
Dichlorodifluoromethane	1.0	U	1.0	0.12	ug/L			08/08/18 05:38	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			08/08/18 05:38	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			08/08/18 05:38	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			08/08/18 05:38	1
Methyl acetate	5.0	U	5.0	0.31	ug/L			08/08/18 05:38	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			08/08/18 05:38	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			08/08/18 05:38	1
Methylene Chloride	0.36	J	1.0	0.32	ug/L			08/08/18 05:38	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			08/08/18 05:38	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			08/08/18 05:38	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			08/08/18 05:38	1
o-Xylene	1.0	U	1.0	0.36	ug/L			08/08/18 05:38	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			08/08/18 05:38	1
Styrene	1.0	U	1.0	0.42	ug/L			08/08/18 05:38	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			08/08/18 05:38	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			08/08/18 05:38	1
Toluene	0.41	J	1.0	0.38	ug/L			08/08/18 05:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			08/08/18 05:38	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			08/08/18 05:38	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			08/08/18 05:38	1
Trichlorofluoromethane	1.0	U	1.0	0.14	ug/L			08/08/18 05:38	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			08/08/18 05:38	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161927-1

Client Sample ID: MR-14

Lab Sample ID: 460-161927-2

Date Collected: 08/02/18 09:30

Matrix: Water

Date Received: 08/02/18 20:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			08/08/18 05:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		74 - 132					08/08/18 05:38	1
4-Bromofluorobenzene	93		77 - 124					08/08/18 05:38	1
Dibromofluoromethane (Surr)	90		72 - 131					08/08/18 05:38	1
Toluene-d8 (Surr)	89		80 - 120					08/08/18 05:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		08/05/18 10:31	08/06/18 07:24	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		08/05/18 10:31	08/06/18 07:24	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		08/05/18 10:31	08/06/18 07:24	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		08/05/18 10:31	08/06/18 07:24	1
2,4,5-Trichlorophenol	10	U	10	0.28	ug/L		08/05/18 10:31	08/06/18 07:24	1
2,4,6-Trichlorophenol	10	U	10	0.30	ug/L		08/05/18 10:31	08/06/18 07:24	1
2,4-Dichlorophenol	10	U	10	0.42	ug/L		08/05/18 10:31	08/06/18 07:24	1
2,4-Dimethylphenol	10	U	10	0.24	ug/L		08/05/18 10:31	08/06/18 07:24	1
2,4-Dinitrophenol	20	U	20	14	ug/L		08/05/18 10:31	08/06/18 07:24	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		08/05/18 10:31	08/06/18 07:24	1
2,6-Dinitrotoluene	2.0	U	2.0	0.39	ug/L		08/05/18 10:31	08/06/18 07:24	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		08/05/18 10:31	08/06/18 07:24	1
2-Chlorophenol	10	U	10	0.38	ug/L		08/05/18 10:31	08/06/18 07:24	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		08/05/18 10:31	08/06/18 07:24	1
2-Methylphenol	10	U	10	0.26	ug/L		08/05/18 10:31	08/06/18 07:24	1
2-Nitroaniline	10	U	10	0.47	ug/L		08/05/18 10:31	08/06/18 07:24	1
2-Nitrophenol	10	U	10	0.75	ug/L		08/05/18 10:31	08/06/18 07:24	1
3 & 4 Methylphenol	10	U	10	0.24	ug/L		08/05/18 10:31	08/06/18 07:24	1
3,3'-Dichlorobenzidine	10	U *	10	1.4	ug/L		08/05/18 10:31	08/06/18 07:24	1
3-Nitroaniline	10	U	10	0.96	ug/L		08/05/18 10:31	08/06/18 07:24	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		08/05/18 10:31	08/06/18 07:24	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		08/05/18 10:31	08/06/18 07:24	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		08/05/18 10:31	08/06/18 07:24	1
4-Chloroaniline	10	U *	10	1.9	ug/L		08/05/18 10:31	08/06/18 07:24	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		08/05/18 10:31	08/06/18 07:24	1
4-Methylphenol	10	U	10	0.24	ug/L		08/05/18 10:31	08/06/18 07:24	1
4-Nitroaniline	10	U	10	0.54	ug/L		08/05/18 10:31	08/06/18 07:24	1
4-Nitrophenol	20	U	20	0.69	ug/L		08/05/18 10:31	08/06/18 07:24	1
Acenaphthene	10	U	10	1.1	ug/L		08/05/18 10:31	08/06/18 07:24	1
Acenaphthylene	10	U	10	0.82	ug/L		08/05/18 10:31	08/06/18 07:24	1
Acetophenone	10	U	10	0.79	ug/L		08/05/18 10:31	08/06/18 07:24	1
Anthracene	10	U	10	0.63	ug/L		08/05/18 10:31	08/06/18 07:24	1
Atrazine	2.0	U	2.0	1.3	ug/L		08/05/18 10:31	08/06/18 07:24	1
Benzaldehyde	10	U *	10	0.59	ug/L		08/05/18 10:31	08/06/18 07:24	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		08/05/18 10:31	08/06/18 07:24	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		08/05/18 10:31	08/06/18 07:24	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		08/05/18 10:31	08/06/18 07:24	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		08/05/18 10:31	08/06/18 07:24	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		08/05/18 10:31	08/06/18 07:24	1
Bis(2-chloroethoxy)methane	10	U	10	0.24	ug/L		08/05/18 10:31	08/06/18 07:24	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161927-1

Client Sample ID: MR-14

Date Collected: 08/02/18 09:30

Date Received: 08/02/18 20:00

Lab Sample ID: 460-161927-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	1.0	U	1.0	0.30	ug/L		08/05/18 10:31	08/06/18 07:24	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		08/05/18 10:31	08/06/18 07:24	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		08/05/18 10:31	08/06/18 07:24	1
Caprolactam	10	U *	10	0.68	ug/L		08/05/18 10:31	08/06/18 07:24	1
Carbazole	10	U	10	0.68	ug/L		08/05/18 10:31	08/06/18 07:24	1
Chrysene	2.0	U	2.0	0.91	ug/L		08/05/18 10:31	08/06/18 07:24	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		08/05/18 10:31	08/06/18 07:24	1
Dibenzofuran	10	U	10	1.1	ug/L		08/05/18 10:31	08/06/18 07:24	1
Diethyl phthalate	10	U	10	0.98	ug/L		08/05/18 10:31	08/06/18 07:24	1
Dimethyl phthalate	10	U	10	0.77	ug/L		08/05/18 10:31	08/06/18 07:24	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		08/05/18 10:31	08/06/18 07:24	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		08/05/18 10:31	08/06/18 07:24	1
Fluoranthene	10	U	10	0.84	ug/L		08/05/18 10:31	08/06/18 07:24	1
Fluorene	10	U	10	0.91	ug/L		08/05/18 10:31	08/06/18 07:24	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		08/05/18 10:31	08/06/18 07:24	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		08/05/18 10:31	08/06/18 07:24	1
Hexachlorocyclopentadiene	10	U	10	1.7	ug/L		08/05/18 10:31	08/06/18 07:24	1
Hexachloroethane	2.0	U	2.0	1.2	ug/L		08/05/18 10:31	08/06/18 07:24	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		08/05/18 10:31	08/06/18 07:24	1
Isophorone	10	U	10	0.80	ug/L		08/05/18 10:31	08/06/18 07:24	1
Naphthalene	10	U	10	1.1	ug/L		08/05/18 10:31	08/06/18 07:24	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		08/05/18 10:31	08/06/18 07:24	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		08/05/18 10:31	08/06/18 07:24	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		08/05/18 10:31	08/06/18 07:24	1
Pentachlorophenol	20	U	20	1.4	ug/L		08/05/18 10:31	08/06/18 07:24	1
Phenanthrene	10	U	10	0.58	ug/L		08/05/18 10:31	08/06/18 07:24	1
Phenol	10	U	10	0.29	ug/L		08/05/18 10:31	08/06/18 07:24	1
Pyrene	10	U	10	1.6	ug/L		08/05/18 10:31	08/06/18 07:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	115		26 - 139	08/05/18 10:31	08/06/18 07:24	1
2-Fluorobiphenyl	101		45 - 107	08/05/18 10:31	08/06/18 07:24	1
2-Fluorophenol (Surr)	53		25 - 58	08/05/18 10:31	08/06/18 07:24	1
Nitrobenzene-d5 (Surr)	123	*	51 - 108	08/05/18 10:31	08/06/18 07:24	1
Phenol-d5 (Surr)	31		14 - 39	08/05/18 10:31	08/06/18 07:24	1
Terphenyl-d14 (Surr)	80		40 - 148	08/05/18 10:31	08/06/18 07:24	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		08/06/18 09:21	08/07/18 15:41	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		08/06/18 09:21	08/07/18 15:41	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		08/06/18 09:21	08/07/18 15:41	1
Aldrin	0.020	U	0.020	0.0030	ug/L		08/06/18 09:21	08/07/18 15:41	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		08/06/18 09:21	08/07/18 15:41	1
beta-BHC	0.020	U	0.020	0.0040	ug/L		08/06/18 09:21	08/07/18 15:41	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		08/06/18 09:21	08/07/18 15:41	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		08/06/18 09:21	08/07/18 15:41	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		08/06/18 09:21	08/07/18 15:41	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		08/06/18 09:21	08/07/18 15:41	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		08/06/18 09:21	08/07/18 15:41	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161927-1

Client Sample ID: MR-14

Date Collected: 08/02/18 09:30

Date Received: 08/02/18 20:00

Lab Sample ID: 460-161927-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	0.020	U	0.020	0.0040	ug/L		08/06/18 09:21	08/07/18 15:41	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		08/06/18 09:21	08/07/18 15:41	1
Endrin	0.020	U	0.020	0.0040	ug/L		08/06/18 09:21	08/07/18 15:41	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		08/06/18 09:21	08/07/18 15:41	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		08/06/18 09:21	08/07/18 15:41	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		08/06/18 09:21	08/07/18 15:41	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		08/06/18 09:21	08/07/18 15:41	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		08/06/18 09:21	08/07/18 15:41	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		08/06/18 09:21	08/07/18 15:41	1
Toxaphene	0.50	U	0.50	0.11	ug/L		08/06/18 09:21	08/07/18 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	20		10 - 150	08/06/18 09:21	08/07/18 15:41	1
DCB Decachlorobiphenyl	21		10 - 150	08/06/18 09:21	08/07/18 15:41	1
Tetrachloro-m-xylene	32		12 - 136	08/06/18 09:21	08/07/18 15:41	1
Tetrachloro-m-xylene	34		12 - 136	08/06/18 09:21	08/07/18 15:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		08/06/18 09:25	08/07/18 13:42	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		08/06/18 09:25	08/07/18 13:42	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		08/06/18 09:25	08/07/18 13:42	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		08/06/18 09:25	08/07/18 13:42	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		08/06/18 09:25	08/07/18 13:42	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		08/06/18 09:25	08/07/18 13:42	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		08/06/18 09:25	08/07/18 13:42	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		08/06/18 09:25	08/07/18 13:42	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		08/06/18 09:25	08/07/18 13:42	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		08/06/18 09:25	08/07/18 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	44		10 - 150	08/06/18 09:25	08/07/18 13:42	1
DCB Decachlorobiphenyl	46		10 - 150	08/06/18 09:25	08/07/18 13:42	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	1.2	U	1.2	0.12	ug/L		08/06/18 20:49	08/07/18 09:41	1
2,4-D	1.2	U	1.2	0.13	ug/L		08/06/18 20:49	08/07/18 09:41	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		08/06/18 20:49	08/07/18 09:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	100		54 - 150	08/06/18 20:49	08/07/18 09:41	1
2,4-Dichlorophenylacetic acid	105		54 - 150	08/06/18 20:49	08/07/18 09:41	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	419		40.0	15.0	ug/L		08/06/18 02:30	08/07/18 04:47	2
Antimony	2.4		2.0	0.62	ug/L		08/06/18 02:30	08/08/18 04:26	2
Arsenic	2.3		2.0	0.77	ug/L		08/06/18 02:30	08/07/18 04:47	2
Barium	274		4.0	1.1	ug/L		08/06/18 02:30	08/07/18 04:47	2
Beryllium	0.80	U	0.80	0.26	ug/L		08/06/18 02:30	08/07/18 04:47	2

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161927-1

Client Sample ID: MR-14

Date Collected: 08/02/18 09:30

Date Received: 08/02/18 20:00

Lab Sample ID: 460-161927-2

Matrix: Water

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	2.0	U	2.0	0.61	ug/L		08/06/18 02:30	08/07/18 04:47	2
Calcium	264000		200	67.6	ug/L		08/06/18 02:30	08/07/18 04:47	2
Chromium	3.1	J	4.0	1.3	ug/L		08/06/18 02:30	08/07/18 04:47	2
Cobalt	2.5	J	4.0	1.3	ug/L		08/06/18 02:30	08/08/18 04:26	2
Copper	3.3	J	4.0	1.9	ug/L		08/06/18 02:30	08/08/18 04:26	2
Iron	1250		120	45.7	ug/L		08/06/18 02:30	08/07/18 04:47	2
Lead	2.9		1.2	0.37	ug/L		08/06/18 02:30	08/07/18 04:47	2
Magnesium	127000		200	65.7	ug/L		08/06/18 02:30	08/07/18 04:47	2
Manganese	374		8.0	2.7	ug/L		08/06/18 02:30	08/07/18 04:47	2
Nickel	6.5		4.0	1.3	ug/L		08/06/18 02:30	08/08/18 04:26	2
Potassium	64600		200	64.9	ug/L		08/06/18 02:30	08/07/18 04:47	2
Selenium	1.4	J	10.0	0.69	ug/L		08/06/18 02:30	08/07/18 04:47	2
Silver	2.0	U	2.0	1.4	ug/L		08/06/18 02:30	08/07/18 04:47	2
Sodium	901000		2000	757	ug/L		08/06/18 02:30	08/07/18 04:51	20
Thallium	0.80	U	0.80	0.24	ug/L		08/06/18 02:30	08/07/18 04:47	2
Vanadium	1.8	J	4.0	1.2	ug/L		08/06/18 02:30	08/07/18 04:47	2
Zinc	10.3	J	16.0	5.4	ug/L		08/06/18 02:30	08/07/18 04:47	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		08/07/18 11:52	08/07/18 16:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	7.4	J B	10.0	2.0	ug/L		08/05/18 13:12	08/06/18 10:45	1

Client Sample ID: MR-12

Date Collected: 08/02/18 11:00

Date Received: 08/02/18 20:00

Lab Sample ID: 460-161927-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			08/08/18 06:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/08/18 06:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			08/08/18 06:02	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			08/08/18 06:02	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			08/08/18 06:02	1
1,1-Dichloroethene	1.0	U	1.0	0.12	ug/L			08/08/18 06:02	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			08/08/18 06:02	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			08/08/18 06:02	1
1,2,4-Trimethylbenzene	18		1.0	0.37	ug/L			08/08/18 06:02	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			08/08/18 06:02	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			08/08/18 06:02	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			08/08/18 06:02	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			08/08/18 06:02	1
1,3,5-Trimethylbenzene	6.7		1.0	0.33	ug/L			08/08/18 06:02	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			08/08/18 06:02	1
1,4-Dichlorobenzene	1.0	U	1.0	0.76	ug/L			08/08/18 06:02	1
1,4-Dioxane	50	U	50	28	ug/L			08/08/18 06:02	1
2-Butanone (MEK)	2.6	J	5.0	1.9	ug/L			08/08/18 06:02	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161927-1

Client Sample ID: MR-12

Date Collected: 08/02/18 11:00

Date Received: 08/02/18 20:00

Lab Sample ID: 460-161927-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	5.0	U	5.0	2.9	ug/L			08/08/18 06:02	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.7	ug/L			08/08/18 06:02	1
Acetone	15		5.0	5.0	ug/L			08/08/18 06:02	1
Benzene	20		1.0	0.43	ug/L			08/08/18 06:02	1
Bromoform	1.0	U	1.0	0.54	ug/L			08/08/18 06:02	1
Bromomethane	1.0	U	1.0	1.0	ug/L			08/08/18 06:02	1
Carbon disulfide	1.0	U	1.0	0.16	ug/L			08/08/18 06:02	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			08/08/18 06:02	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			08/08/18 06:02	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			08/08/18 06:02	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			08/08/18 06:02	1
Chloroethane	1.0	U	1.0	0.32	ug/L			08/08/18 06:02	1
Chloroform	2.1		1.0	0.33	ug/L			08/08/18 06:02	1
Chloromethane	1.0	U	1.0	0.14	ug/L			08/08/18 06:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			08/08/18 06:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			08/08/18 06:02	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			08/08/18 06:02	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			08/08/18 06:02	1
Dichlorodifluoromethane	1.0	U	1.0	0.12	ug/L			08/08/18 06:02	1
Ethylbenzene	6.0		1.0	0.30	ug/L			08/08/18 06:02	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			08/08/18 06:02	1
Isopropylbenzene	0.80	J	1.0	0.34	ug/L			08/08/18 06:02	1
Methyl acetate	5.0	U	5.0	0.31	ug/L			08/08/18 06:02	1
Methyl tert-butyl ether	0.99	J	1.0	0.47	ug/L			08/08/18 06:02	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			08/08/18 06:02	1
Methylene Chloride	1.0		1.0	0.32	ug/L			08/08/18 06:02	1
m-Xylene & p-Xylene	36		1.0	0.30	ug/L			08/08/18 06:02	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			08/08/18 06:02	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			08/08/18 06:02	1
o-Xylene	29		1.0	0.36	ug/L			08/08/18 06:02	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			08/08/18 06:02	1
Styrene	14		1.0	0.42	ug/L			08/08/18 06:02	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			08/08/18 06:02	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			08/08/18 06:02	1
Toluene	23		1.0	0.38	ug/L			08/08/18 06:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			08/08/18 06:02	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			08/08/18 06:02	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			08/08/18 06:02	1
Trichlorofluoromethane	1.0	U	1.0	0.14	ug/L			08/08/18 06:02	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			08/08/18 06:02	1
Xylenes, Total	65		2.0	0.65	ug/L			08/08/18 06:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		74 - 132		08/08/18 06:02	1
4-Bromofluorobenzene	115		77 - 124		08/08/18 06:02	1
Dibromofluoromethane (Surr)	105		72 - 131		08/08/18 06:02	1
Toluene-d8 (Surr)	105		80 - 120		08/08/18 06:02	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161927-1

Client Sample ID: MR-12

Date Collected: 08/02/18 11:00

Date Received: 08/02/18 20:00

Lab Sample ID: 460-161927-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	50	U	50	5.9	ug/L		08/05/18 10:31	08/07/18 00:44	5
1,2,4,5-Tetrachlorobenzene	50	U	50	6.2	ug/L		08/05/18 10:31	08/07/18 00:44	5
2,2'-oxybis[1-chloropropane]	50	U	50	3.1	ug/L		08/05/18 10:31	08/07/18 00:44	5
2,3,4,6-Tetrachlorophenol	50	U	50	3.7	ug/L		08/05/18 10:31	08/07/18 00:44	5
2,4,5-Trichlorophenol	50	U	50	1.4	ug/L		08/05/18 10:31	08/07/18 00:44	5
2,4,6-Trichlorophenol	50	U	50	1.5	ug/L		08/05/18 10:31	08/07/18 00:44	5
2,4-Dichlorophenol	50	U	50	2.1	ug/L		08/05/18 10:31	08/07/18 00:44	5
2,4-Dimethylphenol	50	U	50	1.2	ug/L		08/05/18 10:31	08/07/18 00:44	5
2,4-Dinitrophenol	100	U	100	72	ug/L		08/05/18 10:31	08/07/18 00:44	5
2,4-Dinitrotoluene	10	U	10	5.0	ug/L		08/05/18 10:31	08/07/18 00:44	5
2,6-Dinitrotoluene	10	U	10	2.0	ug/L		08/05/18 10:31	08/07/18 00:44	5
2-Chloronaphthalene	50	U	50	5.9	ug/L		08/05/18 10:31	08/07/18 00:44	5
2-Chlorophenol	50	U	50	1.9	ug/L		08/05/18 10:31	08/07/18 00:44	5
2-Methylnaphthalene	32	J	50	5.5	ug/L		08/05/18 10:31	08/07/18 00:44	5
2-Methylphenol	170		50	1.3	ug/L		08/05/18 10:31	08/07/18 00:44	5
2-Nitroaniline	50	U	50	2.4	ug/L		08/05/18 10:31	08/07/18 00:44	5
2-Nitrophenol	50	U	50	3.7	ug/L		08/05/18 10:31	08/07/18 00:44	5
3 & 4 Methylphenol	140		50	1.2	ug/L		08/05/18 10:31	08/07/18 00:44	5
3,3'-Dichlorobenzidine	50	U *	50	7.2	ug/L		08/05/18 10:31	08/07/18 00:44	5
3-Nitroaniline	50	U	50	4.8	ug/L		08/05/18 10:31	08/07/18 00:44	5
4,6-Dinitro-2-methylphenol	100	U	100	66	ug/L		08/05/18 10:31	08/07/18 00:44	5
4-Bromophenyl phenyl ether	50	U	50	3.7	ug/L		08/05/18 10:31	08/07/18 00:44	5
4-Chloro-3-methylphenol	50	U	50	2.9	ug/L		08/05/18 10:31	08/07/18 00:44	5
4-Chloroaniline	50	U *	50	9.4	ug/L		08/05/18 10:31	08/07/18 00:44	5
4-Chlorophenyl phenyl ether	50	U	50	6.4	ug/L		08/05/18 10:31	08/07/18 00:44	5
4-Methylphenol	140		50	1.2	ug/L		08/05/18 10:31	08/07/18 00:44	5
4-Nitroaniline	50	U	50	2.7	ug/L		08/05/18 10:31	08/07/18 00:44	5
4-Nitrophenol	100	U	100	3.4	ug/L		08/05/18 10:31	08/07/18 00:44	5
Acenaphthene	21	J	50	5.4	ug/L		08/05/18 10:31	08/07/18 00:44	5
Acenaphthylene	50	U	50	4.1	ug/L		08/05/18 10:31	08/07/18 00:44	5
Acetophenone	50	U	50	4.0	ug/L		08/05/18 10:31	08/07/18 00:44	5
Anthracene	50	U	50	3.2	ug/L		08/05/18 10:31	08/07/18 00:44	5
Atrazine	10	U	10	6.7	ug/L		08/05/18 10:31	08/07/18 00:44	5
Benzaldehyde	50	U *	50	3.0	ug/L		08/05/18 10:31	08/07/18 00:44	5
Benzo[a]anthracene	5.0	U	5.0	3.0	ug/L		08/05/18 10:31	08/07/18 00:44	5
Benzo[a]pyrene	5.0	U	5.0	2.0	ug/L		08/05/18 10:31	08/07/18 00:44	5
Benzo[b]fluoranthene	10	U	10	5.7	ug/L		08/05/18 10:31	08/07/18 00:44	5
Benzo[g,h,i]perylene	50	U	50	7.1	ug/L		08/05/18 10:31	08/07/18 00:44	5
Benzo[k]fluoranthene	5.0	U	5.0	3.4	ug/L		08/05/18 10:31	08/07/18 00:44	5
Bis(2-chloroethoxy)methane	50	U	50	1.2	ug/L		08/05/18 10:31	08/07/18 00:44	5
Bis(2-chloroethyl)ether	5.0	U	5.0	1.5	ug/L		08/05/18 10:31	08/07/18 00:44	5
Bis(2-ethylhexyl) phthalate	10	U	10	8.5	ug/L		08/05/18 10:31	08/07/18 00:44	5
Butyl benzyl phthalate	50	U	50	4.3	ug/L		08/05/18 10:31	08/07/18 00:44	5
Caprolactam	50	U *	50	3.4	ug/L		08/05/18 10:31	08/07/18 00:44	5
Carbazole	13	J	50	3.4	ug/L		08/05/18 10:31	08/07/18 00:44	5
Chrysene	10	U	10	4.5	ug/L		08/05/18 10:31	08/07/18 00:44	5
Dibenz(a,h)anthracene	5.0	U	5.0	3.6	ug/L		08/05/18 10:31	08/07/18 00:44	5
Dibenzofuran	11	J	50	5.5	ug/L		08/05/18 10:31	08/07/18 00:44	5
Diethyl phthalate	50	U	50	4.9	ug/L		08/05/18 10:31	08/07/18 00:44	5

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161927-1

Client Sample ID: MR-12

Date Collected: 08/02/18 11:00

Date Received: 08/02/18 20:00

Lab Sample ID: 460-161927-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	50	U	50	3.8	ug/L		08/05/18 10:31	08/07/18 00:44	5
Di-n-butyl phthalate	50	U	50	4.2	ug/L		08/05/18 10:31	08/07/18 00:44	5
Di-n-octyl phthalate	50	U	50	24	ug/L		08/05/18 10:31	08/07/18 00:44	5
Fluoranthene	50	U	50	4.2	ug/L		08/05/18 10:31	08/07/18 00:44	5
Fluorene	13	J	50	4.6	ug/L		08/05/18 10:31	08/07/18 00:44	5
Hexachlorobenzene	5.0	U	5.0	2.0	ug/L		08/05/18 10:31	08/07/18 00:44	5
Hexachlorobutadiene	5.0	U	5.0	3.9	ug/L		08/05/18 10:31	08/07/18 00:44	5
Hexachlorocyclopentadiene	50	U	50	8.6	ug/L		08/05/18 10:31	08/07/18 00:44	5
Hexachloroethane	10	U	10	6.0	ug/L		08/05/18 10:31	08/07/18 00:44	5
Indeno[1,2,3-cd]pyrene	10	U	10	6.4	ug/L		08/05/18 10:31	08/07/18 00:44	5
Isophorone	50	U	50	4.0	ug/L		08/05/18 10:31	08/07/18 00:44	5
Naphthalene	570		50	5.7	ug/L		08/05/18 10:31	08/07/18 00:44	5
Nitrobenzene	5.0	U	5.0	2.8	ug/L		08/05/18 10:31	08/07/18 00:44	5
N-Nitrosodi-n-propylamine	5.0	U	5.0	2.2	ug/L		08/05/18 10:31	08/07/18 00:44	5
N-Nitrosodiphenylamine	50	U	50	4.5	ug/L		08/05/18 10:31	08/07/18 00:44	5
Pentachlorophenol	100	U	100	7.2	ug/L		08/05/18 10:31	08/07/18 00:44	5
Phenanthrene	8.7	J	50	2.9	ug/L		08/05/18 10:31	08/07/18 00:44	5
Phenol	50	U	50	1.5	ug/L		08/05/18 10:31	08/07/18 00:44	5
Pyrene	50	U	50	8.2	ug/L		08/05/18 10:31	08/07/18 00:44	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	131		26 - 139	08/05/18 10:31	08/07/18 00:44	5
2-Fluorobiphenyl	76		45 - 107	08/05/18 10:31	08/07/18 00:44	5
2-Fluorophenol (Surr)	44		25 - 58	08/05/18 10:31	08/07/18 00:44	5
Nitrobenzene-d5 (Surr)	102		51 - 108	08/05/18 10:31	08/07/18 00:44	5
Phenol-d5 (Surr)	31		14 - 39	08/05/18 10:31	08/07/18 00:44	5
Terphenyl-d14 (Surr)	76		40 - 148	08/05/18 10:31	08/07/18 00:44	5

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		08/06/18 09:21	08/07/18 13:45	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		08/06/18 09:21	08/07/18 13:45	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		08/06/18 09:21	08/07/18 13:45	1
Aldrin	0.020	U	0.020	0.0030	ug/L		08/06/18 09:21	08/07/18 13:45	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		08/06/18 09:21	08/07/18 13:45	1
beta-BHC	0.020	U	0.020	0.0040	ug/L		08/06/18 09:21	08/07/18 13:45	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		08/06/18 09:21	08/07/18 13:45	1
cis-Chlordane	0.020	U	0.020	0.0020	ug/L		08/06/18 09:21	08/07/18 13:45	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		08/06/18 09:21	08/07/18 13:45	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		08/06/18 09:21	08/07/18 13:45	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		08/06/18 09:21	08/07/18 13:45	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		08/06/18 09:21	08/07/18 13:45	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		08/06/18 09:21	08/07/18 13:45	1
Endrin	0.020	U	0.020	0.0040	ug/L		08/06/18 09:21	08/07/18 13:45	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		08/06/18 09:21	08/07/18 13:45	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		08/06/18 09:21	08/07/18 13:45	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		08/06/18 09:21	08/07/18 13:45	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		08/06/18 09:21	08/07/18 13:45	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		08/06/18 09:21	08/07/18 13:45	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		08/06/18 09:21	08/07/18 13:45	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161927-1

Client Sample ID: MR-12

Date Collected: 08/02/18 11:00

Date Received: 08/02/18 20:00

Lab Sample ID: 460-161927-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	0.50	U	0.50	0.11	ug/L		08/06/18 09:21	08/07/18 13:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	18		10 - 150				08/06/18 09:21	08/07/18 13:45	1
DCB Decachlorobiphenyl	19		10 - 150				08/06/18 09:21	08/07/18 13:45	1
Tetrachloro-m-xylene	21		12 - 136				08/06/18 09:21	08/07/18 13:45	1
Tetrachloro-m-xylene	25		12 - 136				08/06/18 09:21	08/07/18 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		08/06/18 09:25	08/07/18 14:06	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		08/06/18 09:25	08/07/18 14:06	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		08/06/18 09:25	08/07/18 14:06	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		08/06/18 09:25	08/07/18 14:06	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		08/06/18 09:25	08/07/18 14:06	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		08/06/18 09:25	08/07/18 14:06	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		08/06/18 09:25	08/07/18 14:06	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		08/06/18 09:25	08/07/18 14:06	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		08/06/18 09:25	08/07/18 14:06	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		08/06/18 09:25	08/07/18 14:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	45		10 - 150				08/06/18 09:25	08/07/18 14:06	1
DCB Decachlorobiphenyl	42		10 - 150				08/06/18 09:25	08/07/18 14:06	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	1.2	U	1.2	0.12	ug/L		08/06/18 20:49	08/07/18 09:57	1
2,4-D	1.2	U	1.2	0.13	ug/L		08/06/18 20:49	08/07/18 09:57	1
Silvex (2,4,5-TP)	1.2	U	1.2	0.11	ug/L		08/06/18 20:49	08/07/18 09:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	85		54 - 150				08/06/18 20:49	08/07/18 09:57	1
2,4-Dichlorophenylacetic acid	91		54 - 150				08/06/18 20:49	08/07/18 09:57	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7010		40.0	15.0	ug/L		08/06/18 02:30	08/07/18 04:54	2
Antimony	2.1		2.0	0.62	ug/L		08/06/18 02:30	08/08/18 04:33	2
Arsenic	6.0		2.0	0.77	ug/L		08/06/18 02:30	08/07/18 04:54	2
Barium	238		4.0	1.1	ug/L		08/06/18 02:30	08/07/18 04:54	2
Beryllium	0.80	U	0.80	0.26	ug/L		08/06/18 02:30	08/07/18 04:54	2
Cadmium	2.0	U	2.0	0.61	ug/L		08/06/18 02:30	08/07/18 04:54	2
Calcium	106000		200	67.6	ug/L		08/06/18 02:30	08/07/18 04:54	2
Chromium	23.5		4.0	1.3	ug/L		08/06/18 02:30	08/07/18 04:54	2
Cobalt	13.0		4.0	1.3	ug/L		08/06/18 02:30	08/08/18 04:33	2
Copper	140		4.0	1.9	ug/L		08/06/18 02:30	08/08/18 04:33	2
Iron	12600		120	45.7	ug/L		08/06/18 02:30	08/07/18 04:54	2
Lead	5.4		1.2	0.37	ug/L		08/06/18 02:30	08/07/18 04:54	2
Magnesium	42800		200	65.7	ug/L		08/06/18 02:30	08/07/18 04:54	2
Manganese	634		8.0	2.7	ug/L		08/06/18 02:30	08/07/18 04:54	2

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-161927-1

Client Sample ID: MR-12

Date Collected: 08/02/18 11:00

Date Received: 08/02/18 20:00

Lab Sample ID: 460-161927-3

Matrix: Water

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	51.1		4.0	1.3	ug/L		08/06/18 02:30	08/08/18 04:33	2
Potassium	21500		200	64.9	ug/L		08/06/18 02:30	08/07/18 04:54	2
Selenium	10.0	U	10.0	0.69	ug/L		08/06/18 02:30	08/07/18 04:54	2
Silver	22.8		2.0	1.4	ug/L		08/06/18 02:30	08/07/18 04:54	2
Sodium	124000		200	75.7	ug/L		08/06/18 02:30	08/07/18 04:54	2
Thallium	0.80	U	0.80	0.24	ug/L		08/06/18 02:30	08/07/18 04:54	2
Vanadium	11.8		4.0	1.2	ug/L		08/06/18 02:30	08/07/18 04:54	2
Zinc	105		16.0	5.4	ug/L		08/06/18 02:30	08/07/18 04:54	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		08/07/18 11:52	08/07/18 16:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	41.8	B	10.0	2.0	ug/L		08/05/18 13:12	08/06/18 10:45	1

ANALYTICAL REPORT

Job Number: 460-165448-1

Job Description: Taconic Inwood

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, NY 11749
Attention: Ms. Jessica Taylor

Melissa Haas

Approved for release.
Melissa Haas
Project Manager I
11/19/2018 3:10 PM

Melissa Haas, Project Manager I
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11/19/2018
Revision: 1

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TestAmerica Laboratories, Inc.

TestAmerica Edison 777 New Durham Road, Edison, NJ 08817
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Job Number: 460-165448-1

Job Description: Taconic Inwood

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

A handwritten signature in dark ink that reads "Melissa Haas". The signature is written in a cursive, flowing style. Below the signature is a solid horizontal line.

Approved for release.
Melissa Haas
Project Manager I
11/19/2018 3:10 PM

Melissa Haas

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CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: Taconic Inwood

**Report Number: 460-165448-1
Revised Report #1**

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

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

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

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

REVISED REPORT #1

The following report required a revision: 460-165448-1. Details are as follows: The client requested the addition of NY Part 375 compounds for VOCs and SVOCs.

RECEIPT

The samples were received on 9/26/2018 7:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5° C.

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

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples RX-1_0.5-2.5 (460-165448-1), RX-1_5.0-7.0 (460-165448-2), RX-1_8.0-10.0 (460-165448-3), RX-1_13.5-15.5 (460-165448-4), RX-2_0.5-2.5 (460-165448-5) and RX-2_10.0-12.0 (460-165448-6) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260C. The samples were prepared on 09/27/2018 and analyzed on 09/28/2018 and 10/01/2018.

The continuing calibration verification (CCV) analyzed in batch 460-555604 was outside the method criteria for the following analytes: 1,1,1-Trichloroethane and Carbon tetrachloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 460-555604 recovered outside control limits for the following analyte: Dichlorodifluoromethane.

The continuing calibration verification (CCV) analyzed in batch 460-555717 was outside the method criteria for the following analytes: Chloroethane, 1,1,1-Trichloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Trichlorofluoromethane and Carbon tetrachloride (biased high); Chloromethane and Bromoform (biased low). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-555717 recovered outside control limits for the following analytes: Chloroethane, Bromoform, Methylcyclohexane and Bromomethane. These analytes were not detected in the associated sample, except for Methylcyclohexane. The data has been flagged and reported.

Refer to the QC report for details.

The following samples were diluted to bring the concentration of target analytes within the calibration range: RX-1_0.5-2.5 (460-165448-1), RX-1_5.0-7.0 (460-165448-2), RX-1_8.0-10.0 (460-165448-3), RX-1_13.5-15.5 (460-165448-4) and RX-2_10.0-12.0 (460-165448-6). Elevated reporting limits (RLs) are provided.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples RX-1_0.5-2.5 (460-165448-1), RX-1_8.0-10.0 (460-165448-3), RX-1_13.5-15.5 (460-165448-4), RX-2_0.5-2.5 (460-165448-5) and RX-2_10.0-12.0 (460-165448-6) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 09/27/2018 and analyzed on 09/28/2018.

The continuing calibration verification (CCV) analyzed in batch 460-555654 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Surrogates recoveries for the following laboratory control sample (LCS) associated with batch 460-55587 were outside the upper control limits. All spike recoveries were within limits. Sample has been qualified and reported.

Several analytes failed the recovery criteria low for the MS of sample 460-165461-1 in batch 460-555654.

Several analytes failed the recovery criteria low for the MSD of sample 460-165461-1 in batch 460-555654.

Refer to the QC report for details.

Sample RX-1_8.0-10.0 (460-165448-3)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

METALS

Samples RX-1_0.5-2.5 (460-165448-1), RX-1_8.0-10.0 (460-165448-3), RX-2_0.5-2.5 (460-165448-5) and RX-2_10.0-12.0 (460-165448-6) were analyzed for Metals in accordance with EPA SW-846 Method 6020A. The samples were prepared on 10/02/2018 and analyzed on 10/02/2018 and 10/03/2018.

Several analytes failed the recovery criteria low for the MS of sample 460-165388-5 in batch 460-556984. Aluminum, Iron and Vanadium failed the recovery criteria high.

For the MSD of sample 460-165388-5 in batch 460-556984, Several analytes failed the recovery criteria low. Magnesium failed the recovery criteria high. Also, Lead exceeded the RPD limit.

Antimony failed the recovery criteria low for the MS of sample 460-165469-4 in batch 460-556839. Several analytes failed the recovery criteria high.

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

Refer to the QC report for details.

Copper, Iron, Lead, Manganese, Selenium and Zinc exceeded the RPD limit for the duplicate of sample 460-165388-5. Calcium and Magnesium exceeded the RPD limit for the duplicate of sample 460-165469-4. Refer to the QC report for details.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples RX-1_0.5-2.5 (460-165448-1), RX-1_8.0-10.0 (460-165448-3), RX-2_0.5-2.5 (460-165448-5) and RX-2_10.0-12.0 (460-165448-6) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 10/01/2018.

Sample RX-1_0.5-2.5 (460-165448-1)[3X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples RX-1_0.5-2.5 (460-165448-1), RX-1_5.0-7.0 (460-165448-2), RX-1_8.0-10.0 (460-165448-3), RX-1_13.5-15.5 (460-165448-4), RX-2_0.5-2.5 (460-165448-5) and RX-2_10.0-12.0 (460-165448-6) were analyzed for percent solids/percent moisture in accordance with

EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 10/01/2018.

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

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-165448-1	RX-1_0.5-2.5	Solid	09/26/18 13:30	09/26/18 19:30
460-165448-2	RX-1_5.0-7.0	Solid	09/26/18 13:45	09/26/18 19:30
460-165448-3	RX-1_8.0-10.0	Solid	09/26/18 14:00	09/26/18 19:30
460-165448-4	RX-1_13.5-15.5	Solid	09/26/18 14:15	09/26/18 19:30
460-165448-5	RX-2_0.5-2.5	Solid	09/26/18 14:30	09/26/18 19:30
460-165448-6	RX-2_10.0-12.0	Solid	09/26/18 14:45	09/26/18 19:30

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-1_0.5-2.5

Lab Sample ID: 460-165448-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.0		0.11	0.024	mg/Kg	50	✖		8260C	Total/NA
1,3,5-Trimethylbenzene	0.41		0.11	0.026	mg/Kg	50	✖		8260C	Total/NA
Benzene	0.45		0.11	0.020	mg/Kg	50	✖		8260C	Total/NA
Ethylbenzene	6.4		0.11	0.032	mg/Kg	50	✖		8260C	Total/NA
Isopropylbenzene	1.9		0.11	0.034	mg/Kg	50	✖		8260C	Total/NA
Methylcyclohexane	5.9		0.11	0.023	mg/Kg	50	✖		8260C	Total/NA
m-Xylene & p-Xylene	2.4		0.11	0.029	mg/Kg	50	✖		8260C	Total/NA
n-Butylbenzene	4.5		0.11	0.028	mg/Kg	50	✖		8260C	Total/NA
N-Propylbenzene	4.4		0.11	0.030	mg/Kg	50	✖		8260C	Total/NA
o-Xylene	0.30		0.11	0.034	mg/Kg	50	✖		8260C	Total/NA
sec-Butylbenzene	1.8		0.11	0.033	mg/Kg	50	✖		8260C	Total/NA
tert-Butylbenzene	0.25		0.11	0.029	mg/Kg	50	✖		8260C	Total/NA
Toluene	0.22		0.11	0.026	mg/Kg	50	✖		8260C	Total/NA
Xylenes, Total	2.7		0.21	0.029	mg/Kg	50	✖		8260C	Total/NA
1,1'-Biphenyl	0.027	J	0.36	0.0047	mg/Kg	1	✖		8270D	Total/NA
2-Methylnaphthalene	2.1		0.36	0.0045	mg/Kg	1	✖		8270D	Total/NA
Acenaphthylene	0.010	J	0.36	0.0037	mg/Kg	1	✖		8270D	Total/NA
Anthracene	0.014	J	0.36	0.0040	mg/Kg	1	✖		8270D	Total/NA
Benzo[a]anthracene	0.078		0.036	0.012	mg/Kg	1	✖		8270D	Total/NA
Benzo[a]pyrene	0.11		0.036	0.0095	mg/Kg	1	✖		8270D	Total/NA
Benzo[b]fluoranthene	0.15		0.036	0.0093	mg/Kg	1	✖		8270D	Total/NA
Benzo[g,h,i]perylene	0.10	J	0.36	0.011	mg/Kg	1	✖		8270D	Total/NA
Benzo[k]fluoranthene	0.054		0.036	0.0070	mg/Kg	1	✖		8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.068	J	0.36	0.019	mg/Kg	1	✖		8270D	Total/NA
Chrysene	0.12	J	0.36	0.0060	mg/Kg	1	✖		8270D	Total/NA
Dibenz(a,h)anthracene	0.026	J	0.036	0.015	mg/Kg	1	✖		8270D	Total/NA
Dibenzofuran	0.0077	J	0.36	0.0050	mg/Kg	1	✖		8270D	Total/NA
Fluoranthene	0.16	J	0.36	0.0046	mg/Kg	1	✖		8270D	Total/NA
Fluorene	0.021	J	0.36	0.0049	mg/Kg	1	✖		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.090		0.036	0.014	mg/Kg	1	✖		8270D	Total/NA
Naphthalene	3.2		0.36	0.0062	mg/Kg	1	✖		8270D	Total/NA
Phenanthrene	0.068	J	0.36	0.0063	mg/Kg	1	✖		8270D	Total/NA
Pyrene	0.20	J	0.36	0.0089	mg/Kg	1	✖		8270D	Total/NA
Aluminum	4550		19.3	6.6	mg/Kg	20	✖		6020B	Total/NA
Antimony	0.38	J	0.97	0.28	mg/Kg	20	✖		6020B	Total/NA
Arsenic	15.0		0.97	0.31	mg/Kg	20	✖		6020B	Total/NA
Barium	75.0		1.9	0.64	mg/Kg	20	✖		6020B	Total/NA
Beryllium	0.60		0.39	0.16	mg/Kg	20	✖		6020B	Total/NA
Cadmium	0.93	J	0.97	0.32	mg/Kg	20	✖		6020B	Total/NA
Calcium	21700		96.6	28.7	mg/Kg	20	✖		6020B	Total/NA
Chromium	12.1		1.9	0.58	mg/Kg	20	✖		6020B	Total/NA
Cobalt	4.1		1.9	0.58	mg/Kg	20	✖		6020B	Total/NA
Copper	55.2		1.9	0.55	mg/Kg	20	✖		6020B	Total/NA
Iron	13400		58.0	20.3	mg/Kg	20	✖		6020B	Total/NA
Lead	127		0.58	0.18	mg/Kg	20	✖		6020B	Total/NA
Magnesium	10400		96.6	26.9	mg/Kg	20	✖		6020B	Total/NA
Manganese	121		3.9	1.2	mg/Kg	20	✖		6020B	Total/NA
Nickel	13.0		1.9	0.63	mg/Kg	20	✖		6020B	Total/NA
Potassium	793		96.6	34.8	mg/Kg	20	✖		6020B	Total/NA
Selenium	1.1	J	4.8	0.28	mg/Kg	20	✖		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-1_0.5-2.5 (Continued)

Lab Sample ID: 460-165448-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	249		96.6	30.2	mg/Kg	20	☼	6020B	Total/NA
Thallium	0.49		0.39	0.12	mg/Kg	20	☼	6020B	Total/NA
Vanadium	27.2		1.9	0.55	mg/Kg	20	☼	6020B	Total/NA
Zinc	305		7.7	3.8	mg/Kg	20	☼	6020B	Total/NA
Mercury	1.7		0.053	0.031	mg/Kg	3	☼	7471B	Total/NA

Client Sample ID: RX-1_5.0-7.0

Lab Sample ID: 460-165448-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.070	J	0.095	0.022	mg/Kg	50	☼	8260C	Total/NA
Cyclohexane	0.053	J	0.095	0.025	mg/Kg	50	☼	8260C	Total/NA
Ethylbenzene	0.12		0.095	0.029	mg/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	0.71		0.095	0.030	mg/Kg	50	☼	8260C	Total/NA
Methyl acetate	0.089	J	0.48	0.055	mg/Kg	50	☼	8260C	Total/NA
Methylcyclohexane	0.33	*	0.095	0.021	mg/Kg	50	☼	8260C	Total/NA
m-Xylene & p-Xylene	0.22		0.095	0.027	mg/Kg	50	☼	8260C	Total/NA
n-Butylbenzene	1.3		0.095	0.026	mg/Kg	50	☼	8260C	Total/NA
N-Propylbenzene	2.0		0.095	0.028	mg/Kg	50	☼	8260C	Total/NA
o-Xylene	0.037	J	0.095	0.030	mg/Kg	50	☼	8260C	Total/NA
sec-Butylbenzene	0.61		0.095	0.030	mg/Kg	50	☼	8260C	Total/NA
tert-Butylbenzene	0.067	J	0.095	0.027	mg/Kg	50	☼	8260C	Total/NA
Toluene	0.15		0.095	0.024	mg/Kg	50	☼	8260C	Total/NA
Xylenes, Total	0.26		0.19	0.027	mg/Kg	50	☼	8260C	Total/NA

Client Sample ID: RX-1_8.0-10.0

Lab Sample ID: 460-165448-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	0.45		0.10	0.026	mg/Kg	50	☼	8260C	Total/NA
Ethylbenzene	1.1		0.10	0.031	mg/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	7.0		0.10	0.033	mg/Kg	50	☼	8260C	Total/NA
Methylcyclohexane	2.8		0.10	0.023	mg/Kg	50	☼	8260C	Total/NA
m-Xylene & p-Xylene	0.11		0.10	0.029	mg/Kg	50	☼	8260C	Total/NA
n-Butylbenzene	14		0.10	0.028	mg/Kg	50	☼	8260C	Total/NA
N-Propylbenzene	19		0.10	0.030	mg/Kg	50	☼	8260C	Total/NA
sec-Butylbenzene	4.6		0.10	0.032	mg/Kg	50	☼	8260C	Total/NA
tert-Butylbenzene	0.48		0.10	0.029	mg/Kg	50	☼	8260C	Total/NA
Xylenes, Total	0.11	J	0.21	0.029	mg/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene - DL	82		1.0	0.24	mg/Kg	500	☼	8260C	Total/NA
1,1'-Biphenyl	0.12	J	0.77	0.010	mg/Kg	2	☼	8270D	Total/NA
2-Methylnaphthalene	9.7		0.77	0.0097	mg/Kg	2	☼	8270D	Total/NA
Fluoranthene	0.014	J	0.77	0.010	mg/Kg	2	☼	8270D	Total/NA
Fluorene	0.039	J	0.77	0.011	mg/Kg	2	☼	8270D	Total/NA
Naphthalene	11		0.77	0.013	mg/Kg	2	☼	8270D	Total/NA
Phenanthrene	0.067	J	0.77	0.014	mg/Kg	2	☼	8270D	Total/NA
Pyrene	0.022	J	0.77	0.019	mg/Kg	2	☼	8270D	Total/NA
Aluminum	15700		21.7	7.4	mg/Kg	20	☼	6020B	Total/NA
Arsenic	0.95	J	1.1	0.35	mg/Kg	20	☼	6020B	Total/NA
Barium	34.1		2.2	0.72	mg/Kg	20	☼	6020B	Total/NA
Beryllium	0.48		0.43	0.18	mg/Kg	20	☼	6020B	Total/NA
Calcium	149000		109	32.3	mg/Kg	20	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-1_8.0-10.0 (Continued)

Lab Sample ID: 460-165448-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chromium	17.4		2.2	0.65	mg/Kg	20		☼	6020B	Total/NA
Cobalt	4.0		2.2	0.65	mg/Kg	20		☼	6020B	Total/NA
Copper	8.6		2.2	0.62	mg/Kg	20		☼	6020B	Total/NA
Iron	9250		65.2	22.8	mg/Kg	20		☼	6020B	Total/NA
Lead	13.1		0.65	0.21	mg/Kg	20		☼	6020B	Total/NA
Magnesium	87600		109	30.2	mg/Kg	20		☼	6020B	Total/NA
Manganese	137		4.3	1.3	mg/Kg	20		☼	6020B	Total/NA
Nickel	10.1		2.2	0.71	mg/Kg	20		☼	6020B	Total/NA
Potassium	5930		109	39.1	mg/Kg	20		☼	6020B	Total/NA
Sodium	746		109	34.0	mg/Kg	20		☼	6020B	Total/NA
Vanadium	18.8		2.2	0.62	mg/Kg	20		☼	6020B	Total/NA
Zinc	36.8		8.7	4.2	mg/Kg	20		☼	6020B	Total/NA
Mercury	0.026		0.018	0.011	mg/Kg	1		☼	7471B	Total/NA

Client Sample ID: RX-1_13.5-15.5

Lab Sample ID: 460-165448-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.1		0.11	0.025	mg/Kg	50		☼	8260C	Total/NA
Cyclohexane	0.47		0.11	0.028	mg/Kg	50		☼	8260C	Total/NA
Ethylbenzene	0.14		0.11	0.033	mg/Kg	50		☼	8260C	Total/NA
Isopropylbenzene	1.4		0.11	0.035	mg/Kg	50		☼	8260C	Total/NA
Methylcyclohexane	2.4	*	0.11	0.024	mg/Kg	50		☼	8260C	Total/NA
n-Butylbenzene	2.3		0.11	0.029	mg/Kg	50		☼	8260C	Total/NA
N-Propylbenzene	3.9		0.11	0.032	mg/Kg	50		☼	8260C	Total/NA
sec-Butylbenzene	0.76		0.11	0.034	mg/Kg	50		☼	8260C	Total/NA
tert-Butylbenzene	0.066	J	0.11	0.031	mg/Kg	50		☼	8260C	Total/NA
2-Methylnaphthalene	0.66		0.40	0.0051	mg/Kg	1		☼	8270D	Total/NA
Fluoranthene	0.011	J	0.40	0.0053	mg/Kg	1		☼	8270D	Total/NA
Fluorene	0.0091	J	0.40	0.0055	mg/Kg	1		☼	8270D	Total/NA
Naphthalene	0.91		0.40	0.0070	mg/Kg	1		☼	8270D	Total/NA
N-Nitrosodiphenylamine	0.0085	J	0.40	0.0078	mg/Kg	1		☼	8270D	Total/NA
Phenanthrene	0.016	J	0.40	0.0071	mg/Kg	1		☼	8270D	Total/NA
Pyrene	0.012	J	0.40	0.010	mg/Kg	1		☼	8270D	Total/NA

Client Sample ID: RX-2_0.5-2.5

Lab Sample ID: 460-165448-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.0018		0.0014	0.00014	mg/Kg	1		☼	8260C	Total/NA
1,3,5-Trimethylbenzene	0.00042	J	0.0014	0.00017	mg/Kg	1		☼	8260C	Total/NA
2-Butanone (MEK)	0.0090		0.0072	0.0016	mg/Kg	1		☼	8260C	Total/NA
Acetone	0.039		0.0072	0.0055	mg/Kg	1		☼	8260C	Total/NA
Benzene	0.0098		0.0014	0.00037	mg/Kg	1		☼	8260C	Total/NA
Carbon disulfide	0.0019		0.0014	0.00038	mg/Kg	1		☼	8260C	Total/NA
Ethylbenzene	0.0037		0.0014	0.00029	mg/Kg	1		☼	8260C	Total/NA
Isopropylbenzene	0.0030		0.0014	0.00018	mg/Kg	1		☼	8260C	Total/NA
m-Xylene & p-Xylene	0.0066		0.0014	0.00025	mg/Kg	1		☼	8260C	Total/NA
n-Butylbenzene	0.0075		0.0014	0.00021	mg/Kg	1		☼	8260C	Total/NA
N-Propylbenzene	0.0089		0.0014	0.00025	mg/Kg	1		☼	8260C	Total/NA
o-Xylene	0.00050	J	0.0014	0.00014	mg/Kg	1		☼	8260C	Total/NA
sec-Butylbenzene	0.0095		0.0014	0.00013	mg/Kg	1		☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-2_0.5-2.5 (Continued)

Lab Sample ID: 460-165448-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
tert-Butylbenzene	0.0012	J	0.0014	0.00018	mg/Kg	1	☼		8260C	Total/NA
Toluene	0.0025		0.0014	0.00090	mg/Kg	1	☼		8260C	Total/NA
Xylenes, Total	0.0071		0.0029	0.00037	mg/Kg	1	☼		8260C	Total/NA
2-Methylnaphthalene	0.16	J	0.50	0.0063	mg/Kg	1	☼		8270D	Total/NA
Acetophenone	0.10	J	0.50	0.0081	mg/Kg	1	☼		8270D	Total/NA
Benzo[b]fluoranthene	0.018	J	0.050	0.013	mg/Kg	1	☼		8270D	Total/NA
Chrysene	0.020	J	0.50	0.0085	mg/Kg	1	☼		8270D	Total/NA
Fluoranthene	0.023	J	0.50	0.0066	mg/Kg	1	☼		8270D	Total/NA
Fluorene	0.014	J	0.50	0.0068	mg/Kg	1	☼		8270D	Total/NA
Naphthalene	0.31	J	0.50	0.0087	mg/Kg	1	☼		8270D	Total/NA
Phenanthrene	0.031	J	0.50	0.0089	mg/Kg	1	☼		8270D	Total/NA
Pyrene	0.026	J	0.50	0.013	mg/Kg	1	☼		8270D	Total/NA
Aluminum	8590		26.8	9.2	mg/Kg	20	☼		6020B	Total/NA
Antimony	0.86	J	1.3	0.39	mg/Kg	20	☼		6020B	Total/NA
Arsenic	46.2		1.3	0.43	mg/Kg	20	☼		6020B	Total/NA
Barium	150		2.7	0.89	mg/Kg	20	☼		6020B	Total/NA
Beryllium	1.4		0.54	0.22	mg/Kg	20	☼		6020B	Total/NA
Cadmium	0.77	J	1.3	0.45	mg/Kg	20	☼		6020B	Total/NA
Calcium	27700		134	39.8	mg/Kg	20	☼		6020B	Total/NA
Chromium	21.5		2.7	0.80	mg/Kg	20	☼		6020B	Total/NA
Cobalt	6.6		2.7	0.81	mg/Kg	20	☼		6020B	Total/NA
Copper	78.2		2.7	0.77	mg/Kg	20	☼		6020B	Total/NA
Iron	24200		80.4	28.1	mg/Kg	20	☼		6020B	Total/NA
Lead	307		0.80	0.25	mg/Kg	20	☼		6020B	Total/NA
Magnesium	6870		134	37.2	mg/Kg	20	☼		6020B	Total/NA
Manganese	123		5.4	1.6	mg/Kg	20	☼		6020B	Total/NA
Nickel	18.4		2.7	0.87	mg/Kg	20	☼		6020B	Total/NA
Potassium	1000		134	48.2	mg/Kg	20	☼		6020B	Total/NA
Selenium	3.0	J	6.7	0.39	mg/Kg	20	☼		6020B	Total/NA
Sodium	406		134	41.9	mg/Kg	20	☼		6020B	Total/NA
Thallium	1.8		0.54	0.17	mg/Kg	20	☼		6020B	Total/NA
Vanadium	39.1		2.7	0.76	mg/Kg	20	☼		6020B	Total/NA
Zinc	200		10.7	5.2	mg/Kg	20	☼		6020B	Total/NA
Mercury	0.26		0.026	0.015	mg/Kg	1	☼		7471B	Total/NA

Client Sample ID: RX-2_10.0-12.0

Lab Sample ID: 460-165448-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.050	J	0.10	0.024	mg/Kg	50	☼		8260C	Total/NA
1,3,5-Trimethylbenzene	1.2		0.10	0.026	mg/Kg	50	☼		8260C	Total/NA
Benzene	0.047	J	0.10	0.019	mg/Kg	50	☼		8260C	Total/NA
Cyclohexane	11		0.10	0.027	mg/Kg	50	☼		8260C	Total/NA
Ethylbenzene	1.1		0.10	0.031	mg/Kg	50	☼		8260C	Total/NA
Isopropylbenzene	13		0.10	0.033	mg/Kg	50	☼		8260C	Total/NA
Methylcyclohexane	33	*	0.10	0.023	mg/Kg	50	☼		8260C	Total/NA
m-Xylene & p-Xylene	0.058	J	0.10	0.029	mg/Kg	50	☼		8260C	Total/NA
n-Butylbenzene	16		0.10	0.028	mg/Kg	50	☼		8260C	Total/NA
N-Propylbenzene	43		0.10	0.030	mg/Kg	50	☼		8260C	Total/NA
sec-Butylbenzene	5.4		0.10	0.032	mg/Kg	50	☼		8260C	Total/NA
tert-Butylbenzene	0.25		0.10	0.029	mg/Kg	50	☼		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-2_10.0-12.0 (Continued)

Lab Sample ID: 460-165448-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Xylenes, Total	0.058	J	0.21	0.029	mg/Kg	50	✱		8260C	Total/NA
1,1'-Biphenyl	0.040	J	0.40	0.0053	mg/Kg	1	✱		8270D	Total/NA
2-Methylnaphthalene	4.2		0.40	0.0050	mg/Kg	1	✱		8270D	Total/NA
Acenaphthylene	0.011	J	0.40	0.0041	mg/Kg	1	✱		8270D	Total/NA
Anthracene	0.0071	J	0.40	0.0045	mg/Kg	1	✱		8270D	Total/NA
Benzo[a]anthracene	0.015	J	0.040	0.014	mg/Kg	1	✱		8270D	Total/NA
Chrysene	0.0073	J	0.40	0.0068	mg/Kg	1	✱		8270D	Total/NA
Fluoranthene	0.018	J	0.40	0.0052	mg/Kg	1	✱		8270D	Total/NA
Fluorene	0.033	J	0.40	0.0054	mg/Kg	1	✱		8270D	Total/NA
Naphthalene	4.3		0.40	0.0069	mg/Kg	1	✱		8270D	Total/NA
N-Nitrosodiphenylamine	0.037	J	0.40	0.0077	mg/Kg	1	✱		8270D	Total/NA
Phenanthrene	0.055	J	0.40	0.0071	mg/Kg	1	✱		8270D	Total/NA
Pyrene	0.022	J	0.40	0.010	mg/Kg	1	✱		8270D	Total/NA
Aluminum	6580		20.4	7.0	mg/Kg	20	✱		6020B	Total/NA
Arsenic	2.1		1.0	0.33	mg/Kg	20	✱		6020B	Total/NA
Barium	28.8		2.0	0.68	mg/Kg	20	✱		6020B	Total/NA
Beryllium	0.42		0.41	0.16	mg/Kg	20	✱		6020B	Total/NA
Calcium	9660		102	30.3	mg/Kg	20	✱		6020B	Total/NA
Chromium	11.3		2.0	0.61	mg/Kg	20	✱		6020B	Total/NA
Cobalt	5.1		2.0	0.61	mg/Kg	20	✱		6020B	Total/NA
Copper	9.1		2.0	0.58	mg/Kg	20	✱		6020B	Total/NA
Iron	10800		61.2	21.4	mg/Kg	20	✱		6020B	Total/NA
Lead	9.8		0.61	0.19	mg/Kg	20	✱		6020B	Total/NA
Magnesium	8320		102	28.4	mg/Kg	20	✱		6020B	Total/NA
Manganese	137		4.1	1.2	mg/Kg	20	✱		6020B	Total/NA
Nickel	11.1		2.0	0.66	mg/Kg	20	✱		6020B	Total/NA
Potassium	1250		102	36.7	mg/Kg	20	✱		6020B	Total/NA
Sodium	260		102	31.9	mg/Kg	20	✱		6020B	Total/NA
Thallium	0.13	J	0.41	0.13	mg/Kg	20	✱		6020B	Total/NA
Vanadium	14.7		2.0	0.58	mg/Kg	20	✱		6020B	Total/NA
Zinc	25.7		8.2	4.0	mg/Kg	20	✱		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Method Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
6020B	Metals (ICP/MS)	SW846	TAL EDI
7471B	Mercury (CVAA)	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
3050B	Preparation, Metals	SW846	TAL EDI
3546	Microwave Extraction	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI
7471B	Preparation, Mercury	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-1_0.5-2.5

Date Collected: 09/26/18 13:30

Date Received: 09/26/18 19:30

Lab Sample ID: 460-165448-1

Matrix: Solid

Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.11	U	0.11	0.029	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
1,1,2,2-Tetrachloroethane	0.11	U	0.11	0.020	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.11	U	0.11	0.036	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
1,1,2-Trichloroethane	0.11	U	0.11	0.0084	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
1,1-Dichloroethane	0.11	U	0.11	0.025	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
1,1-Dichloroethene	0.11	U	0.11	0.036	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
1,2,3-Trichlorobenzene	0.11	U	0.11	0.037	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
1,2,4-Trichlorobenzene	0.11	U	0.11	0.028	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
1,2,4-Trimethylbenzene	1.0		0.11	0.024	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
1,2-Dibromo-3-Chloropropane	0.11	U	0.11	0.024	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
1,2-Dichlorobenzene	0.11	U	0.11	0.023	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
1,2-Dichloroethane	0.11	U	0.11	0.026	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
1,2-Dichloropropane	0.11	U	0.11	0.019	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
1,3,5-Trimethylbenzene	0.41		0.11	0.026	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
1,3-Dichlorobenzene	0.11	U	0.11	0.035	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
1,4-Dichlorobenzene	0.11	U	0.11	0.035	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
1,4-Dioxane	5.3	U	5.3	0.91	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
2-Butanone (MEK)	0.53	U	0.53	0.23	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
2-Hexanone	0.53	U	0.53	0.076	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
4-Methyl-2-pentanone (MIBK)	0.53	U	0.53	0.066	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Acetone	0.53	U	0.53	0.11	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Benzene	0.45		0.11	0.020	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Bromoform	0.11	U	0.11	0.019	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Bromomethane	0.11	U	0.11	0.019	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Carbon disulfide	0.11	U	0.11	0.023	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Carbon tetrachloride	0.11	U	0.11	0.035	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Chlorobenzene	0.11	U	0.11	0.025	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Chlorobromomethane	0.11	U	0.11	0.032	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Chlorodibromomethane	0.11	U	0.11	0.023	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Chloroethane	0.11	U	0.11	0.039	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Chloroform	0.11	U	0.11	0.023	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Chloromethane	0.11	U	0.11	0.023	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
cis-1,2-Dichloroethene	0.11	U	0.11	0.027	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
cis-1,3-Dichloropropene	0.11	U	0.11	0.017	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Cyclohexane	0.11	U	0.11	0.027	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Dichlorobromomethane	0.11	U	0.11	0.016	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Dichlorodifluoromethane	0.11	U	0.11	0.015	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Ethylbenzene	6.4		0.11	0.032	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Ethylene Dibromide	0.11	U	0.11	0.020	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Isopropylbenzene	1.9		0.11	0.034	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Methyl acetate	0.53	U	0.53	0.061	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Methyl tert-butyl ether	0.11	U	0.11	0.014	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Methylcyclohexane	5.9		0.11	0.023	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Methylene Chloride	0.11	U	0.11	0.022	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
m-Xylene & p-Xylene	2.4		0.11	0.029	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
n-Butylbenzene	4.5		0.11	0.028	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
N-Propylbenzene	4.4		0.11	0.030	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
o-Xylene	0.30		0.11	0.034	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
sec-Butylbenzene	1.8		0.11	0.033	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-1_0.5-2.5

Date Collected: 09/26/18 13:30

Date Received: 09/26/18 19:30

Lab Sample ID: 460-165448-1

Matrix: Solid

Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.11	U	0.11	0.018	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
tert-Butylbenzene	0.25		0.11	0.029	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Tetrachloroethene	0.11	U	0.11	0.038	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Toluene	0.22		0.11	0.026	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
trans-1,2-Dichloroethene	0.11	U	0.11	0.019	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
trans-1,3-Dichloropropene	0.11	U	0.11	0.020	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Trichloroethene	0.11	U	0.11	0.023	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Trichlorofluoromethane	0.11	U	0.11	0.016	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Vinyl chloride	0.11	U	0.11	0.021	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50
Xylenes, Total	2.7		0.21	0.029	mg/Kg	☼	09/27/18 07:48	10/01/18 09:48	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		69 - 143	09/27/18 07:48	10/01/18 09:48	50
4-Bromofluorobenzene	112		61 - 137	09/27/18 07:48	10/01/18 09:48	50
Dibromofluoromethane (Surr)	114		61 - 135	09/27/18 07:48	10/01/18 09:48	50
Toluene-d8 (Surr)	117		67 - 127	09/27/18 07:48	10/01/18 09:48	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.027	J	0.36	0.0047	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
1,2,4,5-Tetrachlorobenzene	0.36	U	0.36	0.0047	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
2,2'-oxybis[1-chloropropane]	0.36	U	0.36	0.0065	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
2,3,4,6-Tetrachlorophenol	0.36	U	0.36	0.024	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
2,4,5-Trichlorophenol	0.36	U	0.36	0.012	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.018	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
2,4-Dichlorophenol	0.14	U	0.14	0.0076	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
2,4-Dimethylphenol	0.36	U	0.36	0.016	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
2,4-Dinitrophenol	0.29	U	0.29	0.18	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
2,4-Dinitrotoluene	0.072	U	0.072	0.018	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
2,6-Dinitrotoluene	0.072	U	0.072	0.012	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
2-Chloronaphthalene	0.36	U	0.36	0.017	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
2-Chlorophenol	0.36	U	0.36	0.0050	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
2-Methylnaphthalene	2.1		0.36	0.0045	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
2-Methylphenol	0.36	U	0.36	0.0058	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
2-Nitroaniline	0.36	U	0.36	0.013	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
2-Nitrophenol	0.36	U	0.36	0.011	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
3 & 4 Methylphenol	0.36	U	0.36	0.0061	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
3,3'-Dichlorobenzidine	0.14	U	0.14	0.054	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
3-Nitroaniline	0.36	U	0.36	0.019	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
4,6-Dinitro-2-methylphenol	0.29	U	0.29	0.058	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
4-Bromophenyl phenyl ether	0.36	U	0.36	0.0046	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
4-Chloro-3-methylphenol	0.36	U	0.36	0.0059	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
4-Chloroaniline	0.36	U	0.36	0.025	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
4-Chlorophenyl phenyl ether	0.36	U	0.36	0.0056	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
4-Methylphenol	0.36	U	0.36	0.0061	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
4-Nitroaniline	0.36	U	0.36	0.013	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
4-Nitrophenol	0.72	U	0.72	0.058	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Acenaphthene	0.36	U	0.36	0.026	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Acenaphthylene	0.010	J	0.36	0.0037	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Acetophenone	0.36	U	0.36	0.0058	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-1_0.5-2.5

Date Collected: 09/26/18 13:30

Date Received: 09/26/18 19:30

Lab Sample ID: 460-165448-1

Matrix: Solid

Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.014	J	0.36	0.0040	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Atrazine	0.14	U	0.14	0.0090	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Benzaldehyde	0.36	U	0.36	0.016	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Benzo[a]anthracene	0.078		0.036	0.012	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Benzo[a]pyrene	0.11		0.036	0.0095	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Benzo[b]fluoranthene	0.15		0.036	0.0093	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Benzo[g,h,i]perylene	0.10	J	0.36	0.011	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Benzo[k]fluoranthene	0.054		0.036	0.0070	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Bis(2-chloroethoxy)methane	0.36	U	0.36	0.012	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Bis(2-chloroethyl)ether	0.036	U	0.036	0.0043	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Bis(2-ethylhexyl) phthalate	0.068	J	0.36	0.019	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Butyl benzyl phthalate	0.36	U	0.36	0.017	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Caprolactam	0.36	U	0.36	0.021	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Carbazole	0.36	U	0.36	0.0042	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Chrysene	0.12	J	0.36	0.0060	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Dibenz(a,h)anthracene	0.026	J	0.036	0.015	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Dibenzofuran	0.0077	J	0.36	0.0050	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Diethyl phthalate	0.36	U	0.36	0.0052	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Dimethyl phthalate	0.36	U	0.36	0.0043	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Di-n-butyl phthalate	0.36	U	0.36	0.063	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Di-n-octyl phthalate	0.36	U	0.36	0.019	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Fluoranthene	0.16	J	0.36	0.0046	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Fluorene	0.021	J	0.36	0.0049	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Hexachlorobenzene	0.036	U	0.036	0.0052	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Hexachlorobutadiene	0.072	U	0.072	0.0076	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Hexachlorocyclopentadiene	0.36	U	0.36	0.031	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Hexachloroethane	0.036	U	0.036	0.0055	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Indeno[1,2,3-cd]pyrene	0.090		0.036	0.014	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Isophorone	0.14	U	0.14	0.0094	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Naphthalene	3.2		0.36	0.0062	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Nitrobenzene	0.036	U	0.036	0.0086	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
N-Nitrosodi-n-propylamine	0.036	U	0.036	0.0057	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
N-Nitrosodiphenylamine	0.36	U	0.36	0.0068	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Pentachlorophenol	0.29	U	0.29	0.073	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Phenanthrene	0.068	J	0.36	0.0063	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Phenol	0.36	U	0.36	0.0053	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1
Pyrene	0.20	J	0.36	0.0089	mg/Kg	☼	09/27/18 16:14	09/28/18 07:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	53		10 - 103	09/27/18 16:14	09/28/18 07:01	1
2-Fluorobiphenyl	54		38 - 95	09/27/18 16:14	09/28/18 07:01	1
2-Fluorophenol (Surr)	65		25 - 92	09/27/18 16:14	09/28/18 07:01	1
Nitrobenzene-d5 (Surr)	64		37 - 94	09/27/18 16:14	09/28/18 07:01	1
Phenol-d5 (Surr)	61		32 - 91	09/27/18 16:14	09/28/18 07:01	1
Terphenyl-d14 (Surr)	50		24 - 109	09/27/18 16:14	09/28/18 07:01	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4550		19.3	6.6	mg/Kg	☼	10/02/18 09:15	10/02/18 16:24	20
Antimony	0.38	J	0.97	0.28	mg/Kg	☼	10/02/18 09:15	10/02/18 16:24	20

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-1_0.5-2.5

Date Collected: 09/26/18 13:30

Date Received: 09/26/18 19:30

Lab Sample ID: 460-165448-1

Matrix: Solid

Percent Solids: 92.4

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	15.0		0.97	0.31	mg/Kg	☼	10/02/18 09:15	10/02/18 16:24	20
Barium	75.0		1.9	0.64	mg/Kg	☼	10/02/18 09:15	10/02/18 16:24	20
Beryllium	0.60		0.39	0.16	mg/Kg	☼	10/02/18 09:15	10/02/18 16:24	20
Cadmium	0.93	J	0.97	0.32	mg/Kg	☼	10/02/18 09:15	10/02/18 16:24	20
Calcium	21700		96.6	28.7	mg/Kg	☼	10/02/18 09:15	10/02/18 16:24	20
Chromium	12.1		1.9	0.58	mg/Kg	☼	10/02/18 09:15	10/02/18 16:24	20
Cobalt	4.1		1.9	0.58	mg/Kg	☼	10/02/18 09:15	10/02/18 16:24	20
Copper	55.2		1.9	0.55	mg/Kg	☼	10/02/18 09:15	10/02/18 16:24	20
Iron	13400		58.0	20.3	mg/Kg	☼	10/02/18 09:15	10/02/18 16:24	20
Lead	127		0.58	0.18	mg/Kg	☼	10/02/18 09:15	10/02/18 16:24	20
Magnesium	10400		96.6	26.9	mg/Kg	☼	10/02/18 09:15	10/02/18 16:24	20
Manganese	121		3.9	1.2	mg/Kg	☼	10/02/18 09:15	10/02/18 16:24	20
Nickel	13.0		1.9	0.63	mg/Kg	☼	10/02/18 09:15	10/02/18 16:24	20
Potassium	793		96.6	34.8	mg/Kg	☼	10/02/18 09:15	10/02/18 16:24	20
Selenium	1.1	J	4.8	0.28	mg/Kg	☼	10/02/18 09:15	10/02/18 16:24	20
Silver	0.97	U	0.97	0.60	mg/Kg	☼	10/02/18 09:15	10/02/18 16:24	20
Sodium	249		96.6	30.2	mg/Kg	☼	10/02/18 09:15	10/02/18 16:24	20
Thallium	0.49		0.39	0.12	mg/Kg	☼	10/02/18 09:15	10/02/18 16:24	20
Vanadium	27.2		1.9	0.55	mg/Kg	☼	10/02/18 09:15	10/02/18 16:24	20
Zinc	305		7.7	3.8	mg/Kg	☼	10/02/18 09:15	10/02/18 16:24	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.7		0.053	0.031	mg/Kg	☼	10/01/18 03:49	10/01/18 10:46	3

Client Sample ID: RX-1_5.0-7.0

Date Collected: 09/26/18 13:45

Date Received: 09/26/18 19:30

Lab Sample ID: 460-165448-2

Matrix: Solid

Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.095	U	0.095	0.027	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
1,1,2,2-Tetrachloroethane	0.095	U	0.095	0.018	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.095	U	0.095	0.032	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
1,1,2-Trichloroethane	0.095	U	0.095	0.0076	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
1,1-Dichloroethane	0.095	U	0.095	0.023	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
1,1-Dichloroethene	0.095	U	0.095	0.032	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
1,2,3-Trichlorobenzene	0.095	U	0.095	0.033	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
1,2,4-Trichlorobenzene	0.095	U	0.095	0.026	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
1,2,4-Trimethylbenzene	0.070	J	0.095	0.022	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
1,2-Dibromo-3-Chloropropane	0.095	U	0.095	0.022	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
1,2-Dichlorobenzene	0.095	U	0.095	0.021	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
1,2-Dichloroethane	0.095	U	0.095	0.024	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
1,2-Dichloropropane	0.095	U	0.095	0.017	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
1,3,5-Trimethylbenzene	0.095	U	0.095	0.024	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
1,3-Dichlorobenzene	0.095	U	0.095	0.031	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
1,4-Dichlorobenzene	0.095	U	0.095	0.031	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
1,4-Dioxane	4.8	U	4.8	0.83	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
2-Butanone (MEK)	0.48	U	0.48	0.21	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
2-Hexanone	0.48	U	0.48	0.069	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-1_5.0-7.0

Date Collected: 09/26/18 13:45

Date Received: 09/26/18 19:30

Lab Sample ID: 460-165448-2

Matrix: Solid

Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	0.48	U	0.48	0.060	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Acetone	0.48	U	0.48	0.10	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Benzene	0.095	U	0.095	0.018	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Bromoform	0.095	U *	0.095	0.017	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Bromomethane	0.095	U *	0.095	0.017	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Carbon disulfide	0.095	U	0.095	0.021	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Carbon tetrachloride	0.095	U	0.095	0.031	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Chlorobenzene	0.095	U	0.095	0.023	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Chlorobromomethane	0.095	U	0.095	0.029	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Chlorodibromomethane	0.095	U	0.095	0.021	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Chloroethane	0.095	U *	0.095	0.035	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Chloroform	0.095	U	0.095	0.021	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Chloromethane	0.095	U	0.095	0.021	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
cis-1,2-Dichloroethene	0.095	U	0.095	0.025	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
cis-1,3-Dichloropropene	0.095	U	0.095	0.015	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Cyclohexane	0.053	J	0.095	0.025	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Dichlorobromomethane	0.095	U	0.095	0.014	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Dichlorodifluoromethane	0.095	U	0.095	0.013	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Ethylbenzene	0.12		0.095	0.029	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Ethylene Dibromide	0.095	U	0.095	0.018	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Isopropylbenzene	0.71		0.095	0.030	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Methyl acetate	0.089	J	0.48	0.055	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Methyl tert-butyl ether	0.095	U	0.095	0.012	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Methylcyclohexane	0.33	*	0.095	0.021	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Methylene Chloride	0.095	U	0.095	0.020	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
m-Xylene & p-Xylene	0.22		0.095	0.027	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
n-Butylbenzene	1.3		0.095	0.026	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
N-Propylbenzene	2.0		0.095	0.028	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
o-Xylene	0.037	J	0.095	0.030	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
sec-Butylbenzene	0.61		0.095	0.030	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Styrene	0.095	U	0.095	0.016	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
tert-Butylbenzene	0.067	J	0.095	0.027	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Tetrachloroethene	0.095	U	0.095	0.034	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Toluene	0.15		0.095	0.024	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
trans-1,2-Dichloroethene	0.095	U	0.095	0.017	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
trans-1,3-Dichloropropene	0.095	U	0.095	0.018	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Trichloroethene	0.095	U	0.095	0.021	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Trichlorofluoromethane	0.095	U	0.095	0.014	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Vinyl chloride	0.095	U	0.095	0.019	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50
Xylenes, Total	0.26		0.19	0.027	mg/Kg	☼	09/27/18 07:49	09/28/18 09:52	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	141		69 - 143	09/27/18 07:49	09/28/18 09:52	50
4-Bromofluorobenzene	120		61 - 137	09/27/18 07:49	09/28/18 09:52	50
Dibromofluoromethane (Surr)	123		61 - 135	09/27/18 07:49	09/28/18 09:52	50
Toluene-d8 (Surr)	118		67 - 127	09/27/18 07:49	09/28/18 09:52	50

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-1_8.0-10.0

Date Collected: 09/26/18 14:00

Date Received: 09/26/18 19:30

Lab Sample ID: 460-165448-3

Matrix: Solid

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.10	U	0.10	0.029	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
1,1,2,2-Tetrachloroethane	0.10	U	0.10	0.020	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.10	U	0.10	0.035	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
1,1,2-Trichloroethane	0.10	U	0.10	0.0083	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
1,1-Dichloroethane	0.10	U	0.10	0.025	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
1,1-Dichloroethene	0.10	U	0.10	0.035	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
1,2,3-Trichlorobenzene	0.10	U	0.10	0.036	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
1,2,4-Trichlorobenzene	0.10	U	0.10	0.028	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
1,2-Dibromo-3-Chloropropane	0.10	U	0.10	0.024	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
1,2-Dichlorobenzene	0.10	U	0.10	0.023	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
1,2-Dichloroethane	0.10	U	0.10	0.026	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
1,2-Dichloropropane	0.10	U	0.10	0.019	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
1,3,5-Trimethylbenzene	0.45		0.10	0.026	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
1,3-Dichlorobenzene	0.10	U	0.10	0.034	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
1,4-Dichlorobenzene	0.10	U	0.10	0.034	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
1,4-Dioxane	5.2	U	5.2	0.90	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
2-Butanone (MEK)	0.52	U	0.52	0.23	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
2-Hexanone	0.52	U	0.52	0.075	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
4-Methyl-2-pentanone (MIBK)	0.52	U	0.52	0.065	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Acetone	0.52	U	0.52	0.11	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Benzene	0.10	U	0.10	0.020	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Bromoform	0.10	U	0.10	0.019	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Bromomethane	0.10	U	0.10	0.019	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Carbon disulfide	0.10	U	0.10	0.023	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Carbon tetrachloride	0.10	U	0.10	0.034	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Chlorobenzene	0.10	U	0.10	0.025	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Chlorobromomethane	0.10	U	0.10	0.031	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Chlorodibromomethane	0.10	U	0.10	0.023	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Chloroethane	0.10	U	0.10	0.038	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Chloroform	0.10	U	0.10	0.023	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Chloromethane	0.10	U	0.10	0.023	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
cis-1,2-Dichloroethene	0.10	U	0.10	0.027	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
cis-1,3-Dichloropropene	0.10	U	0.10	0.017	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Cyclohexane	0.10	U	0.10	0.027	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Dichlorobromomethane	0.10	U	0.10	0.016	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Dichlorodifluoromethane	0.10	U	0.10	0.015	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Ethylbenzene	1.1		0.10	0.031	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Ethylene Dibromide	0.10	U	0.10	0.020	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Isopropylbenzene	7.0		0.10	0.033	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Methyl acetate	0.52	U	0.52	0.060	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Methyl tert-butyl ether	0.10	U	0.10	0.014	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Methylcyclohexane	2.8		0.10	0.023	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Methylene Chloride	0.10	U	0.10	0.022	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
m-Xylene & p-Xylene	0.11		0.10	0.029	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
n-Butylbenzene	14		0.10	0.028	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
N-Propylbenzene	19		0.10	0.030	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
o-Xylene	0.10	U	0.10	0.033	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
sec-Butylbenzene	4.6		0.10	0.032	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Styrene	0.10	U	0.10	0.018	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-1_8.0-10.0

Lab Sample ID: 460-165448-3

Date Collected: 09/26/18 14:00

Matrix: Solid

Date Received: 09/26/18 19:30

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.48		0.10	0.029	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Tetrachloroethene	0.10	U	0.10	0.037	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Toluene	0.10	U	0.10	0.026	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
trans-1,2-Dichloroethene	0.10	U	0.10	0.019	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
trans-1,3-Dichloropropene	0.10	U	0.10	0.020	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Trichloroethene	0.10	U	0.10	0.023	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Trichlorofluoromethane	0.10	U	0.10	0.016	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Vinyl chloride	0.10	U	0.10	0.021	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Xylenes, Total	0.11	J	0.21	0.029	mg/Kg	☼	09/27/18 07:49	10/01/18 10:12	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		69 - 143				09/27/18 07:49	10/01/18 10:12	50
4-Bromofluorobenzene	104		61 - 137				09/27/18 07:49	10/01/18 10:12	50
Dibromofluoromethane (Surr)	101		61 - 135				09/27/18 07:49	10/01/18 10:12	50
Toluene-d8 (Surr)	112		67 - 127				09/27/18 07:49	10/01/18 10:12	50

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	82		1.0	0.24	mg/Kg	☼	09/27/18 07:49	09/28/18 04:59	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	153	*	69 - 143				09/27/18 07:49	09/28/18 04:59	500
4-Bromofluorobenzene	123		61 - 137				09/27/18 07:49	09/28/18 04:59	500
Dibromofluoromethane (Surr)	118		61 - 135				09/27/18 07:49	09/28/18 04:59	500
Toluene-d8 (Surr)	123		67 - 127				09/27/18 07:49	09/28/18 04:59	500

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.12	J	0.77	0.010	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
1,2,4,5-Tetrachlorobenzene	0.77	U	0.77	0.010	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
2,2'-oxybis[1-chloropropane]	0.77	U	0.77	0.014	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
2,3,4,6-Tetrachlorophenol	0.77	U	0.77	0.053	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
2,4,5-Trichlorophenol	0.77	U	0.77	0.026	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
2,4,6-Trichlorophenol	0.31	U	0.31	0.039	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
2,4-Dichlorophenol	0.31	U	0.31	0.016	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
2,4-Dimethylphenol	0.77	U	0.77	0.034	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
2,4-Dinitrophenol	0.62	U	0.62	0.38	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
2,4-Dinitrotoluene	0.16	U	0.16	0.039	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
2,6-Dinitrotoluene	0.16	U	0.16	0.025	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
2-Chloronaphthalene	0.77	U	0.77	0.036	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
2-Chlorophenol	0.77	U	0.77	0.011	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
2-Methylnaphthalene	9.7		0.77	0.0097	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
2-Methylphenol	0.77	U	0.77	0.013	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
2-Nitroaniline	0.77	U	0.77	0.029	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
2-Nitrophenol	0.77	U	0.77	0.025	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
3 & 4 Methylphenol	0.77	U	0.77	0.013	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
3,3'-Dichlorobenzidine	0.31	U	0.31	0.12	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
3-Nitroaniline	0.77	U	0.77	0.042	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
4,6-Dinitro-2-methylphenol	0.62	U	0.62	0.13	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
4-Bromophenyl phenyl ether	0.77	U	0.77	0.010	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-1_8.0-10.0

Lab Sample ID: 460-165448-3

Date Collected: 09/26/18 14:00

Matrix: Solid

Date Received: 09/26/18 19:30

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	0.77	U	0.77	0.013	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
4-Chloroaniline	0.77	U	0.77	0.054	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
4-Chlorophenyl phenyl ether	0.77	U	0.77	0.012	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
4-Methylphenol	0.77	U	0.77	0.013	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
4-Nitroaniline	0.77	U	0.77	0.029	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
4-Nitrophenol	1.6	U	1.6	0.13	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Acenaphthene	0.77	U	0.77	0.056	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Acenaphthylene	0.77	U	0.77	0.0080	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Acetophenone	0.77	U	0.77	0.013	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Anthracene	0.77	U	0.77	0.0087	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Atrazine	0.31	U	0.31	0.020	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Benzaldehyde	0.77	U	0.77	0.034	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Benzo[a]anthracene	0.077	U	0.077	0.027	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Benzo[a]pyrene	0.077	U	0.077	0.021	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Benzo[b]fluoranthene	0.077	U	0.077	0.020	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Benzo[g,h,i]perylene	0.77	U	0.77	0.023	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Benzo[k]fluoranthene	0.077	U	0.077	0.015	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Bis(2-chloroethoxy)methane	0.77	U	0.77	0.027	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Bis(2-chloroethyl)ether	0.077	U	0.077	0.0094	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Bis(2-ethylhexyl) phthalate	0.77	U	0.77	0.041	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Butyl benzyl phthalate	0.77	U	0.77	0.036	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Caprolactam	0.77	U	0.77	0.046	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Carbazole	0.77	U	0.77	0.0091	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Chrysene	0.77	U	0.77	0.013	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Dibenz(a,h)anthracene	0.077	U	0.077	0.034	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Dibenzofuran	0.77	U	0.77	0.011	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Diethyl phthalate	0.77	U	0.77	0.011	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Dimethyl phthalate	0.77	U	0.77	0.0094	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Di-n-butyl phthalate	0.77	U	0.77	0.14	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Di-n-octyl phthalate	0.77	U	0.77	0.041	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Fluoranthene	0.014	J	0.77	0.010	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Fluorene	0.039	J	0.77	0.011	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Hexachlorobenzene	0.077	U	0.077	0.011	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Hexachlorobutadiene	0.16	U	0.16	0.017	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Hexachlorocyclopentadiene	0.77	U	0.77	0.068	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Hexachloroethane	0.077	U	0.077	0.012	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Indeno[1,2,3-cd]pyrene	0.077	U	0.077	0.030	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Isophorone	0.31	U	0.31	0.020	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Naphthalene	11		0.77	0.013	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Nitrobenzene	0.077	U	0.077	0.019	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
N-Nitrosodi-n-propylamine	0.077	U	0.077	0.012	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
N-Nitrosodiphenylamine	0.77	U	0.77	0.015	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Pentachlorophenol	0.62	U	0.62	0.16	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Phenanthrene	0.067	J	0.77	0.014	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Phenol	0.77	U	0.77	0.011	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2
Pyrene	0.022	J	0.77	0.019	mg/Kg	☼	09/27/18 16:14	09/28/18 08:27	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	62		10 - 103	09/27/18 16:14	09/28/18 08:27	2
2-Fluorobiphenyl	63		38 - 95	09/27/18 16:14	09/28/18 08:27	2

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-1_8.0-10.0

Date Collected: 09/26/18 14:00

Date Received: 09/26/18 19:30

Lab Sample ID: 460-165448-3

Matrix: Solid

Percent Solids: 85.2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	70		25 - 92	09/27/18 16:14	09/28/18 08:27	2
Nitrobenzene-d5 (Surr)	72		37 - 94	09/27/18 16:14	09/28/18 08:27	2
Phenol-d5 (Surr)	66		32 - 91	09/27/18 16:14	09/28/18 08:27	2
Terphenyl-d14 (Surr)	58		24 - 109	09/27/18 16:14	09/28/18 08:27	2

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	15700		21.7	7.4	mg/Kg	☼	10/02/18 09:15	10/02/18 16:29	20
Antimony	1.1	U	1.1	0.32	mg/Kg	☼	10/02/18 09:15	10/02/18 16:29	20
Arsenic	0.95	J	1.1	0.35	mg/Kg	☼	10/02/18 09:15	10/02/18 16:29	20
Barium	34.1		2.2	0.72	mg/Kg	☼	10/02/18 09:15	10/02/18 16:29	20
Beryllium	0.48		0.43	0.18	mg/Kg	☼	10/02/18 09:15	10/02/18 16:29	20
Cadmium	1.1	U	1.1	0.37	mg/Kg	☼	10/02/18 09:15	10/02/18 16:29	20
Calcium	149000		109	32.3	mg/Kg	☼	10/02/18 09:15	10/02/18 16:29	20
Chromium	17.4		2.2	0.65	mg/Kg	☼	10/02/18 09:15	10/02/18 16:29	20
Cobalt	4.0		2.2	0.65	mg/Kg	☼	10/02/18 09:15	10/02/18 16:29	20
Copper	8.6		2.2	0.62	mg/Kg	☼	10/02/18 09:15	10/02/18 16:29	20
Iron	9250		65.2	22.8	mg/Kg	☼	10/02/18 09:15	10/02/18 16:29	20
Lead	13.1		0.65	0.21	mg/Kg	☼	10/02/18 09:15	10/02/18 16:29	20
Magnesium	87600		109	30.2	mg/Kg	☼	10/02/18 09:15	10/02/18 16:29	20
Manganese	137		4.3	1.3	mg/Kg	☼	10/02/18 09:15	10/02/18 16:29	20
Nickel	10.1		2.2	0.71	mg/Kg	☼	10/02/18 09:15	10/02/18 16:29	20
Potassium	5930		109	39.1	mg/Kg	☼	10/02/18 09:15	10/02/18 16:29	20
Selenium	5.4	U	5.4	0.32	mg/Kg	☼	10/02/18 09:15	10/02/18 16:29	20
Silver	1.1	U	1.1	0.67	mg/Kg	☼	10/02/18 09:15	10/02/18 16:29	20
Sodium	746		109	34.0	mg/Kg	☼	10/02/18 09:15	10/02/18 16:29	20
Thallium	0.43	U	0.43	0.14	mg/Kg	☼	10/02/18 09:15	10/02/18 16:29	20
Vanadium	18.8		2.2	0.62	mg/Kg	☼	10/02/18 09:15	10/02/18 16:29	20
Zinc	36.8		8.7	4.2	mg/Kg	☼	10/02/18 09:15	10/02/18 16:29	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.011	mg/Kg	☼	10/01/18 03:49	10/01/18 10:48	1

Client Sample ID: RX-1_13.5-15.5

Date Collected: 09/26/18 14:15

Date Received: 09/26/18 19:30

Lab Sample ID: 460-165448-4

Matrix: Solid

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.11	U	0.11	0.031	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
1,1,2,2-Tetrachloroethane	0.11	U	0.11	0.021	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.11	U	0.11	0.037	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
1,1,2-Trichloroethane	0.11	U	0.11	0.0087	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
1,1-Dichloroethane	0.11	U	0.11	0.026	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
1,1-Dichloroethene	0.11	U	0.11	0.037	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
1,2,3-Trichlorobenzene	0.11	U	0.11	0.038	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
1,2,4-Trichlorobenzene	0.11	U	0.11	0.029	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
1,2,4-Trimethylbenzene	1.1		0.11	0.025	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
1,2-Dibromo-3-Chloropropane	0.11	U	0.11	0.025	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-1_13.5-15.5

Date Collected: 09/26/18 14:15

Date Received: 09/26/18 19:30

Lab Sample ID: 460-165448-4

Matrix: Solid

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.11	U	0.11	0.024	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
1,2-Dichloroethane	0.11	U	0.11	0.027	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
1,2-Dichloropropane	0.11	U	0.11	0.020	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
1,3,5-Trimethylbenzene	0.11	U	0.11	0.027	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
1,3-Dichlorobenzene	0.11	U	0.11	0.036	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
1,4-Dichlorobenzene	0.11	U	0.11	0.036	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
1,4-Dioxane	5.5	U	5.5	0.95	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
2-Butanone (MEK)	0.55	U	0.55	0.24	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
2-Hexanone	0.55	U	0.55	0.079	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
4-Methyl-2-pentanone (MIBK)	0.55	U	0.55	0.069	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Acetone	0.55	U	0.55	0.12	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Benzene	0.11	U	0.11	0.021	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Bromoform	0.11	U *	0.11	0.020	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Bromomethane	0.11	U *	0.11	0.020	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Carbon disulfide	0.11	U	0.11	0.024	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Carbon tetrachloride	0.11	U	0.11	0.036	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Chlorobenzene	0.11	U	0.11	0.026	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Chlorobromomethane	0.11	U	0.11	0.033	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Chlorodibromomethane	0.11	U	0.11	0.024	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Chloroethane	0.11	U *	0.11	0.040	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Chloroform	0.11	U	0.11	0.024	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Chloromethane	0.11	U	0.11	0.024	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
cis-1,2-Dichloroethene	0.11	U	0.11	0.028	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
cis-1,3-Dichloropropene	0.11	U	0.11	0.017	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Cyclohexane	0.47		0.11	0.028	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Dichlorobromomethane	0.11	U	0.11	0.016	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Dichlorodifluoromethane	0.11	U	0.11	0.015	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Ethylbenzene	0.14		0.11	0.033	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Ethylene Dibromide	0.11	U	0.11	0.021	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Isopropylbenzene	1.4		0.11	0.035	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Methyl acetate	0.55	U	0.55	0.063	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Methyl tert-butyl ether	0.11	U	0.11	0.014	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Methylcyclohexane	2.4 *		0.11	0.024	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Methylene Chloride	0.11	U	0.11	0.023	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
m-Xylene & p-Xylene	0.11	U	0.11	0.031	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
n-Butylbenzene	2.3		0.11	0.029	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
N-Propylbenzene	3.9		0.11	0.032	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
o-Xylene	0.11	U	0.11	0.035	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
sec-Butylbenzene	0.76		0.11	0.034	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Styrene	0.11	U	0.11	0.019	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
tert-Butylbenzene	0.066 J		0.11	0.031	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Tetrachloroethene	0.11	U	0.11	0.039	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Toluene	0.11	U	0.11	0.027	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
trans-1,2-Dichloroethene	0.11	U	0.11	0.020	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
trans-1,3-Dichloropropene	0.11	U	0.11	0.021	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Trichloroethene	0.11	U	0.11	0.024	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Trichlorofluoromethane	0.11	U	0.11	0.016	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Vinyl chloride	0.11	U	0.11	0.022	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50
Xylenes, Total	0.22	U	0.22	0.031	mg/Kg	☼	09/27/18 07:50	09/28/18 10:20	50

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-1_13.5-15.5

Date Collected: 09/26/18 14:15

Date Received: 09/26/18 19:30

Lab Sample ID: 460-165448-4

Matrix: Solid

Percent Solids: 81.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	130		69 - 143	09/27/18 07:50	09/28/18 10:20	50
4-Bromofluorobenzene	110		61 - 137	09/27/18 07:50	09/28/18 10:20	50
Dibromofluoromethane (Surr)	111		61 - 135	09/27/18 07:50	09/28/18 10:20	50
Toluene-d8 (Surr)	108		67 - 127	09/27/18 07:50	09/28/18 10:20	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.40	U	0.40	0.0054	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
1,2,4,5-Tetrachlorobenzene	0.40	U	0.40	0.0053	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
2,2'-oxybis[1-chloropropane]	0.40	U	0.40	0.0073	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
2,3,4,6-Tetrachlorophenol	0.40	U	0.40	0.027	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
2,4,5-Trichlorophenol	0.40	U	0.40	0.013	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
2,4,6-Trichlorophenol	0.16	U	0.16	0.020	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
2,4-Dichlorophenol	0.16	U	0.16	0.0086	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
2,4-Dimethylphenol	0.40	U	0.40	0.018	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
2,4-Dinitrophenol	0.33	U	0.33	0.20	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
2,4-Dinitrotoluene	0.082	U	0.082	0.021	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
2,6-Dinitrotoluene	0.082	U	0.082	0.013	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
2-Chloronaphthalene	0.40	U	0.40	0.019	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
2-Chlorophenol	0.40	U	0.40	0.0057	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
2-Methylnaphthalene	0.66		0.40	0.0051	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
2-Methylphenol	0.40	U	0.40	0.0065	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
2-Nitroaniline	0.40	U	0.40	0.015	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
2-Nitrophenol	0.40	U	0.40	0.013	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
3 & 4 Methylphenol	0.40	U	0.40	0.0069	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
3,3'-Dichlorobenzidine	0.16	U	0.16	0.061	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
3-Nitroaniline	0.40	U	0.40	0.022	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
4,6-Dinitro-2-methylphenol	0.33	U	0.33	0.066	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
4-Bromophenyl phenyl ether	0.40	U	0.40	0.0052	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
4-Chloro-3-methylphenol	0.40	U	0.40	0.0067	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
4-Chloroaniline	0.40	U	0.40	0.028	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
4-Chlorophenyl phenyl ether	0.40	U	0.40	0.0064	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
4-Methylphenol	0.40	U	0.40	0.0069	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
4-Nitroaniline	0.40	U	0.40	0.015	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
4-Nitrophenol	0.82	U	0.82	0.066	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Acenaphthene	0.40	U	0.40	0.030	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Acenaphthylene	0.40	U	0.40	0.0042	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Acetophenone	0.40	U	0.40	0.0065	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Anthracene	0.40	U	0.40	0.0045	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Atrazine	0.16	U	0.16	0.010	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Benzaldehyde	0.40	U	0.40	0.018	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Benzo[a]anthracene	0.040	U	0.040	0.014	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Benzo[a]pyrene	0.040	U	0.040	0.011	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Benzo[b]fluoranthene	0.040	U	0.040	0.010	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Benzo[g,h,i]perylene	0.40	U	0.40	0.012	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Benzo[k]fluoranthene	0.040	U	0.040	0.0080	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Bis(2-chloroethoxy)methane	0.40	U	0.40	0.014	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Bis(2-chloroethyl)ether	0.040	U	0.040	0.0049	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Bis(2-ethylhexyl) phthalate	0.40	U	0.40	0.021	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Butyl benzyl phthalate	0.40	U	0.40	0.019	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-1_13.5-15.5

Date Collected: 09/26/18 14:15

Date Received: 09/26/18 19:30

Lab Sample ID: 460-165448-4

Matrix: Solid

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	0.40	U	0.40	0.024	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Carbazole	0.40	U	0.40	0.0047	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Chrysene	0.40	U	0.40	0.0069	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Dibenz(a,h)anthracene	0.040	U	0.040	0.018	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Dibenzofuran	0.40	U	0.40	0.0057	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Diethyl phthalate	0.40	U	0.40	0.0059	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Dimethyl phthalate	0.40	U	0.40	0.0049	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Di-n-butyl phthalate	0.40	U	0.40	0.072	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Di-n-octyl phthalate	0.40	U	0.40	0.021	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Fluoranthene	0.011	J	0.40	0.0053	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Fluorene	0.0091	J	0.40	0.0055	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Hexachlorobenzene	0.040	U	0.040	0.0059	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Hexachlorobutadiene	0.082	U	0.082	0.0086	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Hexachlorocyclopentadiene	0.40	U	0.40	0.036	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Hexachloroethane	0.040	U	0.040	0.0063	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Indeno[1,2,3-cd]pyrene	0.040	U	0.040	0.016	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Isophorone	0.16	U	0.16	0.011	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Naphthalene	0.91		0.40	0.0070	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Nitrobenzene	0.040	U	0.040	0.0097	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
N-Nitrosodi-n-propylamine	0.040	U	0.040	0.0065	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
N-Nitrosodiphenylamine	0.0085	J	0.40	0.0078	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Pentachlorophenol	0.33	U	0.33	0.083	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Phenanthrene	0.016	J	0.40	0.0071	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Phenol	0.40	U	0.40	0.0060	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1
Pyrene	0.012	J	0.40	0.010	mg/Kg	☼	09/27/18 16:14	09/28/18 01:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	58		10 - 103	09/27/18 16:14	09/28/18 01:02	1
2-Fluorobiphenyl	56		38 - 95	09/27/18 16:14	09/28/18 01:02	1
2-Fluorophenol (Surr)	64		25 - 92	09/27/18 16:14	09/28/18 01:02	1
Nitrobenzene-d5 (Surr)	55		37 - 94	09/27/18 16:14	09/28/18 01:02	1
Phenol-d5 (Surr)	59		32 - 91	09/27/18 16:14	09/28/18 01:02	1
Terphenyl-d14 (Surr)	56		24 - 109	09/27/18 16:14	09/28/18 01:02	1

Client Sample ID: RX-2_0.5-2.5

Date Collected: 09/26/18 14:30

Date Received: 09/26/18 19:30

Lab Sample ID: 460-165448-5

Matrix: Solid

Percent Solids: 65.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0014	U	0.0014	0.00034	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
1,1,2,2-Tetrachloroethane	0.0014	U	0.0014	0.00031	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0014	U	0.0014	0.00044	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
1,1,2-Trichloroethane	0.0014	U	0.0014	0.00026	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
1,1-Dichloroethane	0.0014	U	0.0014	0.00030	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
1,1-Dichloroethene	0.0014	U	0.0014	0.00033	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
1,2,3-Trichlorobenzene	0.0014	U	0.0014	0.00026	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
1,2,4-Trichlorobenzene	0.0014	U	0.0014	0.00013	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
1,2,4-Trimethylbenzene	0.0018		0.0014	0.00014	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
1,2-Dibromo-3-Chloropropane	0.0014	U	0.0014	0.00067	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-2_0.5-2.5

Date Collected: 09/26/18 14:30

Date Received: 09/26/18 19:30

Lab Sample ID: 460-165448-5

Matrix: Solid

Percent Solids: 65.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.0014	U	0.0014	0.00021	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
1,2-Dichloroethane	0.0014	U	0.0014	0.00043	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
1,2-Dichloropropane	0.0014	U	0.0014	0.00061	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
1,3,5-Trimethylbenzene	0.00042	J	0.0014	0.00017	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
1,3-Dichlorobenzene	0.0014	U	0.0014	0.00023	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
1,4-Dichlorobenzene	0.0014	U	0.0014	0.00014	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
1,4-Dioxane	0.029	U	0.029	0.013	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
2-Butanone (MEK)	0.0090		0.0072	0.0016	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
2-Hexanone	0.0072	U	0.0072	0.0011	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
4-Methyl-2-pentanone (MIBK)	0.0072	U	0.0072	0.00096	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Acetone	0.039		0.0072	0.0055	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Benzene	0.0098		0.0014	0.00037	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Bromoform	0.0014	U	0.0014	0.00061	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Bromomethane	0.0014	U	0.0014	0.00069	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Carbon disulfide	0.0019		0.0014	0.00038	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Carbon tetrachloride	0.0014	U	0.0014	0.00026	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Chlorobenzene	0.0014	U	0.0014	0.00026	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Chlorobromomethane	0.0014	U	0.0014	0.00041	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Chlorodibromomethane	0.0014	U	0.0014	0.00028	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Chloroethane	0.0014	U	0.0014	0.00075	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Chloroform	0.0014	U	0.0014	0.00046	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Chloromethane	0.0014	U	0.0014	0.00063	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
cis-1,2-Dichloroethene	0.0014	U	0.0014	0.00022	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
cis-1,3-Dichloropropene	0.0014	U	0.0014	0.00039	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Cyclohexane	0.0014	U	0.0014	0.00032	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Dichlorobromomethane	0.0014	U	0.0014	0.00037	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Dichlorodifluoromethane	0.0014	U	0.0014	0.00049	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Ethylbenzene	0.0037		0.0014	0.00029	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Ethylene Dibromide	0.0014	U	0.0014	0.00026	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Isopropylbenzene	0.0030		0.0014	0.00018	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Methyl acetate	0.0072	U	0.0072	0.0062	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Methyl tert-butyl ether	0.0014	U	0.0014	0.00018	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Methylcyclohexane	0.0014	U	0.0014	0.00023	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Methylene Chloride	0.0014	U	0.0014	0.00024	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
m-Xylene & p-Xylene	0.0066		0.0014	0.00025	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
n-Butylbenzene	0.0075		0.0014	0.00021	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
N-Propylbenzene	0.0089		0.0014	0.00025	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
o-Xylene	0.00050	J	0.0014	0.00014	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
sec-Butylbenzene	0.0095		0.0014	0.00013	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Styrene	0.0014	U	0.0014	0.00018	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
tert-Butylbenzene	0.0012	J	0.0014	0.00018	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Tetrachloroethene	0.0014	U	0.0014	0.00021	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Toluene	0.0025		0.0014	0.00090	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
trans-1,2-Dichloroethene	0.0014	U	0.0014	0.00036	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
trans-1,3-Dichloropropene	0.0014	U	0.0014	0.00038	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Trichloroethene	0.0014	U	0.0014	0.00021	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Trichlorofluoromethane	0.0014	U	0.0014	0.00059	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Vinyl chloride	0.0014	U	0.0014	0.00079	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1
Xylenes, Total	0.0071		0.0029	0.00037	mg/Kg	☼	09/27/18 07:44	09/28/18 09:10	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-2_0.5-2.5

Date Collected: 09/26/18 14:30

Date Received: 09/26/18 19:30

Lab Sample ID: 460-165448-5

Matrix: Solid

Percent Solids: 65.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		78 - 135	09/27/18 07:44	09/28/18 09:10	1
4-Bromofluorobenzene	90		67 - 126	09/27/18 07:44	09/28/18 09:10	1
Dibromofluoromethane (Surr)	83		61 - 149	09/27/18 07:44	09/28/18 09:10	1
Toluene-d8 (Surr)	93		73 - 121	09/27/18 07:44	09/28/18 09:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.50	U	0.50	0.0067	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
1,2,4,5-Tetrachlorobenzene	0.50	U	0.50	0.0066	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
2,2'-oxybis[1-chloropropane]	0.50	U	0.50	0.0091	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
2,3,4,6-Tetrachlorophenol	0.50	U	0.50	0.034	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
2,4,5-Trichlorophenol	0.50	U	0.50	0.017	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
2,4,6-Trichlorophenol	0.20	U	0.20	0.025	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
2,4-Dichlorophenol	0.20	U	0.20	0.011	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
2,4-Dimethylphenol	0.50	U	0.50	0.022	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
2,4-Dinitrophenol	0.41	U	0.41	0.25	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
2,4-Dinitrotoluene	0.10	U	0.10	0.026	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
2,6-Dinitrotoluene	0.10	U	0.10	0.016	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
2-Chloronaphthalene	0.50	U	0.50	0.023	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
2-Chlorophenol	0.50	U	0.50	0.0071	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
2-Methylnaphthalene	0.16	J	0.50	0.0063	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
2-Methylphenol	0.50	U	0.50	0.0081	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
2-Nitroaniline	0.50	U	0.50	0.019	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
2-Nitrophenol	0.50	U	0.50	0.016	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
3 & 4 Methylphenol	0.50	U	0.50	0.0086	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
3,3'-Dichlorobenzidine	0.20	U	0.20	0.076	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
3-Nitroaniline	0.50	U	0.50	0.027	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
4,6-Dinitro-2-methylphenol	0.41	U	0.41	0.082	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
4-Bromophenyl phenyl ether	0.50	U	0.50	0.0065	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
4-Chloro-3-methylphenol	0.50	U	0.50	0.0084	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
4-Chloroaniline	0.50	U	0.50	0.035	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
4-Chlorophenyl phenyl ether	0.50	U	0.50	0.0080	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
4-Methylphenol	0.50	U	0.50	0.0086	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
4-Nitroaniline	0.50	U	0.50	0.019	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
4-Nitrophenol	1.0	U	1.0	0.082	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Acenaphthene	0.50	U	0.50	0.037	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Acenaphthylene	0.50	U	0.50	0.0052	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Acetophenone	0.10	J	0.50	0.0081	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Anthracene	0.50	U	0.50	0.0056	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Atrazine	0.20	U	0.20	0.013	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Benzaldehyde	0.50	U	0.50	0.022	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Benzo[a]anthracene	0.050	U	0.050	0.018	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Benzo[a]pyrene	0.050	U	0.050	0.013	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Benzo[b]fluoranthene	0.018	J	0.050	0.013	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.015	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Benzo[k]fluoranthene	0.050	U	0.050	0.0099	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Bis(2-chloroethoxy)methane	0.50	U	0.50	0.017	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Bis(2-chloroethyl)ether	0.050	U	0.050	0.0061	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Bis(2-ethylhexyl) phthalate	0.50	U	0.50	0.027	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Butyl benzyl phthalate	0.50	U	0.50	0.024	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-2_0.5-2.5

Lab Sample ID: 460-165448-5

Date Collected: 09/26/18 14:30

Matrix: Solid

Date Received: 09/26/18 19:30

Percent Solids: 65.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	0.50	U	0.50	0.030	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Carbazole	0.50	U	0.50	0.0059	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Chrysene	0.020	J	0.50	0.0085	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Dibenz(a,h)anthracene	0.050	U	0.050	0.022	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Dibenzofuran	0.50	U	0.50	0.0071	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Diethyl phthalate	0.50	U	0.50	0.0073	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Dimethyl phthalate	0.50	U	0.50	0.0061	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Di-n-butyl phthalate	0.50	U	0.50	0.089	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Di-n-octyl phthalate	0.50	U	0.50	0.027	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Fluoranthene	0.023	J	0.50	0.0066	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Fluorene	0.014	J	0.50	0.0068	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Hexachlorobenzene	0.050	U	0.050	0.0074	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Hexachlorobutadiene	0.10	U	0.10	0.011	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Hexachlorocyclopentadiene	0.50	U	0.50	0.044	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Hexachloroethane	0.050	U	0.050	0.0078	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Indeno[1,2,3-cd]pyrene	0.050	U	0.050	0.020	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Isophorone	0.20	U	0.20	0.013	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Naphthalene	0.31	J	0.50	0.0087	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Nitrobenzene	0.050	U	0.050	0.012	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
N-Nitrosodi-n-propylamine	0.050	U	0.050	0.0080	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
N-Nitrosodiphenylamine	0.50	U	0.50	0.0097	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Pentachlorophenol	0.41	U	0.41	0.10	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Phenanthrene	0.031	J	0.50	0.0089	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Phenol	0.50	U	0.50	0.0075	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1
Pyrene	0.026	J	0.50	0.013	mg/Kg	☼	09/27/18 16:14	09/28/18 07:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	56		10 - 103	09/27/18 16:14	09/28/18 07:25	1
2-Fluorobiphenyl	57		38 - 95	09/27/18 16:14	09/28/18 07:25	1
2-Fluorophenol (Surr)	57		25 - 92	09/27/18 16:14	09/28/18 07:25	1
Nitrobenzene-d5 (Surr)	49		37 - 94	09/27/18 16:14	09/28/18 07:25	1
Phenol-d5 (Surr)	60		32 - 91	09/27/18 16:14	09/28/18 07:25	1
Terphenyl-d14 (Surr)	62		24 - 109	09/27/18 16:14	09/28/18 07:25	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8590		26.8	9.2	mg/Kg	☼	10/02/18 17:16	10/03/18 01:11	20
Antimony	0.86	J	1.3	0.39	mg/Kg	☼	10/02/18 17:16	10/03/18 01:11	20
Arsenic	46.2		1.3	0.43	mg/Kg	☼	10/02/18 17:16	10/03/18 01:11	20
Barium	150		2.7	0.89	mg/Kg	☼	10/02/18 17:16	10/03/18 01:11	20
Beryllium	1.4		0.54	0.22	mg/Kg	☼	10/02/18 17:16	10/03/18 01:11	20
Cadmium	0.77	J	1.3	0.45	mg/Kg	☼	10/02/18 17:16	10/03/18 01:11	20
Calcium	27700		134	39.8	mg/Kg	☼	10/02/18 17:16	10/03/18 01:11	20
Chromium	21.5		2.7	0.80	mg/Kg	☼	10/02/18 17:16	10/03/18 01:11	20
Cobalt	6.6		2.7	0.81	mg/Kg	☼	10/02/18 17:16	10/03/18 01:11	20
Copper	78.2		2.7	0.77	mg/Kg	☼	10/02/18 17:16	10/03/18 01:11	20
Iron	24200		80.4	28.1	mg/Kg	☼	10/02/18 17:16	10/03/18 01:11	20
Lead	307		0.80	0.25	mg/Kg	☼	10/02/18 17:16	10/03/18 01:11	20
Magnesium	6870		134	37.2	mg/Kg	☼	10/02/18 17:16	10/03/18 01:11	20
Manganese	123		5.4	1.6	mg/Kg	☼	10/02/18 17:16	10/03/18 01:11	20

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-2_0.5-2.5

Date Collected: 09/26/18 14:30

Date Received: 09/26/18 19:30

Lab Sample ID: 460-165448-5

Matrix: Solid

Percent Solids: 65.5

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	18.4		2.7	0.87	mg/Kg	☼	10/02/18 17:16	10/03/18 01:11	20
Potassium	1000		134	48.2	mg/Kg	☼	10/02/18 17:16	10/03/18 01:11	20
Selenium	3.0	J	6.7	0.39	mg/Kg	☼	10/02/18 17:16	10/03/18 01:11	20
Silver	1.3	U	1.3	0.83	mg/Kg	☼	10/02/18 17:16	10/03/18 01:11	20
Sodium	406		134	41.9	mg/Kg	☼	10/02/18 17:16	10/03/18 01:11	20
Thallium	1.8		0.54	0.17	mg/Kg	☼	10/02/18 17:16	10/03/18 01:11	20
Vanadium	39.1		2.7	0.76	mg/Kg	☼	10/02/18 17:16	10/03/18 01:11	20
Zinc	200		10.7	5.2	mg/Kg	☼	10/02/18 17:16	10/03/18 01:11	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.026	0.015	mg/Kg	☼	10/01/18 03:49	10/01/18 08:44	1

Client Sample ID: RX-2_10.0-12.0

Date Collected: 09/26/18 14:45

Date Received: 09/26/18 19:30

Lab Sample ID: 460-165448-6

Matrix: Solid

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.10	U	0.10	0.029	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
1,1,2,2-Tetrachloroethane	0.10	U	0.10	0.019	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.10	U	0.10	0.035	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
1,1,2-Trichloroethane	0.10	U	0.10	0.0082	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
1,1-Dichloroethane	0.10	U	0.10	0.025	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
1,1-Dichloroethene	0.10	U	0.10	0.035	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
1,2,3-Trichlorobenzene	0.10	U	0.10	0.036	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
1,2,4-Trichlorobenzene	0.10	U	0.10	0.028	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
1,2,4-Trimethylbenzene	0.050	J	0.10	0.024	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
1,2-Dibromo-3-Chloropropane	0.10	U	0.10	0.024	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
1,2-Dichlorobenzene	0.10	U	0.10	0.023	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
1,2-Dichloroethane	0.10	U	0.10	0.026	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
1,2-Dichloropropane	0.10	U	0.10	0.018	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
1,3,5-Trimethylbenzene	1.2		0.10	0.026	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
1,3-Dichlorobenzene	0.10	U	0.10	0.034	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
1,4-Dichlorobenzene	0.10	U	0.10	0.034	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
1,4-Dioxane	5.1	U	5.1	0.89	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
2-Butanone (MEK)	0.51	U	0.51	0.23	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
2-Hexanone	0.51	U	0.51	0.074	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
4-Methyl-2-pentanone (MIBK)	0.51	U	0.51	0.065	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Acetone	0.51	U	0.51	0.11	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Benzene	0.047	J	0.10	0.019	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Bromoform	0.10	U *	0.10	0.018	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Bromomethane	0.10	U *	0.10	0.018	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Carbon disulfide	0.10	U	0.10	0.023	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Carbon tetrachloride	0.10	U	0.10	0.034	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Chlorobenzene	0.10	U	0.10	0.025	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Chlorobromomethane	0.10	U	0.10	0.031	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Chlorodibromomethane	0.10	U	0.10	0.023	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Chloroethane	0.10	U *	0.10	0.038	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Chloroform	0.10	U	0.10	0.023	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-2_10.0-12.0

Lab Sample ID: 460-165448-6

Date Collected: 09/26/18 14:45

Matrix: Solid

Date Received: 09/26/18 19:30

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.10	U	0.10	0.023	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
cis-1,2-Dichloroethene	0.10	U	0.10	0.027	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
cis-1,3-Dichloropropene	0.10	U	0.10	0.016	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Cyclohexane	11		0.10	0.027	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Dichlorobromomethane	0.10	U	0.10	0.015	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Dichlorodifluoromethane	0.10	U	0.10	0.014	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Ethylbenzene	1.1		0.10	0.031	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Ethylene Dibromide	0.10	U	0.10	0.019	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Isopropylbenzene	13		0.10	0.033	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Methyl acetate	0.51	U	0.51	0.059	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Methyl tert-butyl ether	0.10	U	0.10	0.013	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Methylcyclohexane	33	*	0.10	0.023	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Methylene Chloride	0.10	U	0.10	0.022	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
m-Xylene & p-Xylene	0.058	J	0.10	0.029	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
n-Butylbenzene	16		0.10	0.028	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
N-Propylbenzene	43		0.10	0.030	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
o-Xylene	0.10	U	0.10	0.033	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
sec-Butylbenzene	5.4		0.10	0.032	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Styrene	0.10	U	0.10	0.017	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
tert-Butylbenzene	0.25		0.10	0.029	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Tetrachloroethene	0.10	U	0.10	0.037	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Toluene	0.10	U	0.10	0.026	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
trans-1,2-Dichloroethene	0.10	U	0.10	0.018	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
trans-1,3-Dichloropropene	0.10	U	0.10	0.019	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Trichloroethene	0.10	U	0.10	0.023	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Trichlorofluoromethane	0.10	U	0.10	0.015	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Vinyl chloride	0.10	U	0.10	0.021	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50
Xylenes, Total	0.058	J	0.21	0.029	mg/Kg	☼	09/27/18 07:51	09/28/18 10:48	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	142		69 - 143	09/27/18 07:51	09/28/18 10:48	50
4-Bromofluorobenzene	112		61 - 137	09/27/18 07:51	09/28/18 10:48	50
Dibromofluoromethane (Surr)	102		61 - 135	09/27/18 07:51	09/28/18 10:48	50
Toluene-d8 (Surr)	116		67 - 127	09/27/18 07:51	09/28/18 10:48	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.040	J	0.40	0.0053	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
1,2,4,5-Tetrachlorobenzene	0.40	U	0.40	0.0053	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
2,2'-oxybis[1-chloropropane]	0.40	U	0.40	0.0073	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
2,3,4,6-Tetrachlorophenol	0.40	U	0.40	0.027	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
2,4,5-Trichlorophenol	0.40	U	0.40	0.013	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
2,4,6-Trichlorophenol	0.16	U	0.16	0.020	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
2,4-Dichlorophenol	0.16	U	0.16	0.0085	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
2,4-Dimethylphenol	0.40	U	0.40	0.018	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
2,4-Dinitrophenol	0.32	U	0.32	0.20	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
2,4-Dinitrotoluene	0.081	U	0.081	0.020	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
2,6-Dinitrotoluene	0.081	U	0.081	0.013	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
2-Chloronaphthalene	0.40	U	0.40	0.019	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
2-Chlorophenol	0.40	U	0.40	0.0056	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-2_10.0-12.0

Lab Sample ID: 460-165448-6

Date Collected: 09/26/18 14:45

Matrix: Solid

Date Received: 09/26/18 19:30

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	4.2		0.40	0.0050	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
2-Methylphenol	0.40	U	0.40	0.0065	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
2-Nitroaniline	0.40	U	0.40	0.015	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
2-Nitrophenol	0.40	U	0.40	0.013	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
3 & 4 Methylphenol	0.40	U	0.40	0.0068	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
3,3'-Dichlorobenzidine	0.16	U	0.16	0.061	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
3-Nitroaniline	0.40	U	0.40	0.022	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
4,6-Dinitro-2-methylphenol	0.32	U	0.32	0.065	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
4-Bromophenyl phenyl ether	0.40	U	0.40	0.0052	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
4-Chloro-3-methylphenol	0.40	U	0.40	0.0067	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
4-Chloroaniline	0.40	U	0.40	0.028	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
4-Chlorophenyl phenyl ether	0.40	U	0.40	0.0063	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
4-Methylphenol	0.40	U	0.40	0.0068	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
4-Nitroaniline	0.40	U	0.40	0.015	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
4-Nitrophenol	0.81	U	0.81	0.065	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Acenaphthene	0.40	U	0.40	0.029	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Acenaphthylene	0.011	J	0.40	0.0041	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Acetophenone	0.40	U	0.40	0.0065	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Anthracene	0.0071	J	0.40	0.0045	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Atrazine	0.16	U	0.16	0.010	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Benzaldehyde	0.40	U	0.40	0.017	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Benzo[a]anthracene	0.015	J	0.040	0.014	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Benzo[a]pyrene	0.040	U	0.040	0.011	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Benzo[b]fluoranthene	0.040	U	0.040	0.010	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Benzo[g,h,i]perylene	0.40	U	0.40	0.012	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Benzo[k]fluoranthene	0.040	U	0.040	0.0079	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Bis(2-chloroethoxy)methane	0.40	U	0.40	0.014	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Bis(2-chloroethyl)ether	0.040	U	0.040	0.0048	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Bis(2-ethylhexyl) phthalate	0.40	U	0.40	0.021	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Butyl benzyl phthalate	0.40	U	0.40	0.019	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Caprolactam	0.40	U	0.40	0.024	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Carbazole	0.40	U	0.40	0.0047	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Chrysene	0.0073	J	0.40	0.0068	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Dibenz(a,h)anthracene	0.040	U	0.040	0.017	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Dibenzofuran	0.40	U	0.40	0.0056	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Diethyl phthalate	0.40	U	0.40	0.0058	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Dimethyl phthalate	0.40	U	0.40	0.0048	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Di-n-butyl phthalate	0.40	U	0.40	0.071	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Di-n-octyl phthalate	0.40	U	0.40	0.021	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Fluoranthene	0.018	J	0.40	0.0052	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Fluorene	0.033	J	0.40	0.0054	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Hexachlorobenzene	0.040	U	0.040	0.0059	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Hexachlorobutadiene	0.081	U	0.081	0.0085	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Hexachlorocyclopentadiene	0.40	U	0.40	0.035	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Hexachloroethane	0.040	U	0.040	0.0062	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Indeno[1,2,3-cd]pyrene	0.040	U	0.040	0.016	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Isophorone	0.16	U	0.16	0.011	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Naphthalene	4.3		0.40	0.0069	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Nitrobenzene	0.040	U	0.040	0.0096	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165448-1

Client Sample ID: RX-2_10.0-12.0

Lab Sample ID: 460-165448-6

Date Collected: 09/26/18 14:45

Matrix: Solid

Date Received: 09/26/18 19:30

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	0.040	U	0.040	0.0064	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
N-Nitrosodiphenylamine	0.037	J	0.40	0.0077	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Pentachlorophenol	0.32	U	0.32	0.082	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Phenanthrene	0.055	J	0.40	0.0071	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Phenol	0.40	U	0.40	0.0059	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1
Pyrene	0.022	J	0.40	0.010	mg/Kg	☼	09/27/18 16:14	09/28/18 01:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	61		10 - 103	09/27/18 16:14	09/28/18 01:26	1
2-Fluorobiphenyl	61		38 - 95	09/27/18 16:14	09/28/18 01:26	1
2-Fluorophenol (Surr)	70		25 - 92	09/27/18 16:14	09/28/18 01:26	1
Nitrobenzene-d5 (Surr)	66		37 - 94	09/27/18 16:14	09/28/18 01:26	1
Phenol-d5 (Surr)	65		32 - 91	09/27/18 16:14	09/28/18 01:26	1
Terphenyl-d14 (Surr)	61		24 - 109	09/27/18 16:14	09/28/18 01:26	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6580		20.4	7.0	mg/Kg	☼	10/02/18 17:16	10/03/18 01:22	20
Antimony	1.0	U	1.0	0.30	mg/Kg	☼	10/02/18 17:16	10/03/18 01:22	20
Arsenic	2.1		1.0	0.33	mg/Kg	☼	10/02/18 17:16	10/03/18 01:22	20
Barium	28.8		2.0	0.68	mg/Kg	☼	10/02/18 17:16	10/03/18 01:22	20
Beryllium	0.42		0.41	0.16	mg/Kg	☼	10/02/18 17:16	10/03/18 01:22	20
Cadmium	1.0	U	1.0	0.34	mg/Kg	☼	10/02/18 17:16	10/03/18 01:22	20
Calcium	9660		102	30.3	mg/Kg	☼	10/02/18 17:16	10/03/18 01:22	20
Chromium	11.3		2.0	0.61	mg/Kg	☼	10/02/18 17:16	10/03/18 01:22	20
Cobalt	5.1		2.0	0.61	mg/Kg	☼	10/02/18 17:16	10/03/18 01:22	20
Copper	9.1		2.0	0.58	mg/Kg	☼	10/02/18 17:16	10/03/18 01:22	20
Iron	10800		61.2	21.4	mg/Kg	☼	10/02/18 17:16	10/03/18 01:22	20
Lead	9.8		0.61	0.19	mg/Kg	☼	10/02/18 17:16	10/03/18 01:22	20
Magnesium	8320		102	28.4	mg/Kg	☼	10/02/18 17:16	10/03/18 01:22	20
Manganese	137		4.1	1.2	mg/Kg	☼	10/02/18 17:16	10/03/18 01:22	20
Nickel	11.1		2.0	0.66	mg/Kg	☼	10/02/18 17:16	10/03/18 01:22	20
Potassium	1250		102	36.7	mg/Kg	☼	10/02/18 17:16	10/03/18 01:22	20
Selenium	5.1	U	5.1	0.30	mg/Kg	☼	10/02/18 17:16	10/03/18 01:22	20
Silver	1.0	U	1.0	0.63	mg/Kg	☼	10/02/18 17:16	10/03/18 01:22	20
Sodium	260		102	31.9	mg/Kg	☼	10/02/18 17:16	10/03/18 01:22	20
Thallium	0.13	J	0.41	0.13	mg/Kg	☼	10/02/18 17:16	10/03/18 01:22	20
Vanadium	14.7		2.0	0.58	mg/Kg	☼	10/02/18 17:16	10/03/18 01:22	20
Zinc	25.7		8.2	4.0	mg/Kg	☼	10/02/18 17:16	10/03/18 01:22	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	U	0.020	0.012	mg/Kg	☼	10/01/18 03:49	10/01/18 08:45	1

ANALYTICAL REPORT

Job Number: 460-165599-1

Job Description: Taconic Inwood

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, NY 11749
Attention: Ms. Jessica Taylor

Melissa Haas

Approved for release.
Melissa Haas
Project Manager I
11/19/2018 3:30 PM

Melissa Haas, Project Manager I
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11/19/2018
Revision: 1

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TestAmerica Laboratories, Inc.

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Tel (732) 549-3900 Fax (732) 549-3679 www.testamericainc.com



Job Number: 460-165599-1

Job Description: Taconic Inwood

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

A handwritten signature in dark ink that reads "Melissa Haas". The signature is written in a cursive style with a horizontal line underneath.

Approved for release.
Melissa Haas
Project Manager I
11/19/2018 3:30 PM

Melissa Haas

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CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: Taconic Inwood

**Report Number: 460-165599-1
Revised Report #1**

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

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

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

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

REVISED REPORT #1

The following report required a revision: 460-165599-1. Details are as follows: The client requested the addition of NY Part 375 compounds for VOCs, SVOCs.

RECEIPT

The samples were received on 9/27/2018 8:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.2° C and 3.4° C.

Receipt Exceptions

The following sample was activated by the client on 10/5/18: RX-5_5.0-7.0 (460-165599-10).

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

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples Dup-20180927 (460-165599-1), RX-3_0.5-2.5 (460-165599-2), RX-3_8.0-10.0 (460-165599-3), RX-8_0.5-2.5 (460-165599-5), RX-8_8.0-10.0 (460-165599-6), RX-5_0.5-2.5 (460-165599-9) and RX-5_5.0-7.0 (460-165599-10) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260C. The samples were prepared on 09/28/2018 and analyzed on 09/29/2018, 09/30/2018, 10/03/2018 and 10/09/2018.

The continuing calibration verification (CCV) analyzed in batch 460-556151 was outside the method criteria for the following analyte: Dichlorodifluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

The continuing calibration verification (CCV) associated with batch 460-556923 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-558614 was outside the method criteria for the following analytes: Dichlorodifluoromethane, 1,4-Dichlorobenzene and Bromoform. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

m-Xylene & p-Xylene and Trichloroethene were detected in method blank LB3 460-555845/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples RX-2 (460-165599-4), FB-20180927 (460-165599-7) and Trip Blank (460-165599-8) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 10/02/2018.

N-Propylbenzene exceeds the calibration range in the following sample, the result is flagged "E" for estimated value: RX-2 (460-165599-4). This analyte was added as part of a revised compound list. Re-analysis was not performed because holding time had expired.

The continuing calibration verification (CCV) analyzed in batch 460-556564 was outside the method criteria for the following analyte(s): Bromoform. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample duplicate (LCSD) for batch 460-556564 recovered outside control limits for the following analyte: Benzene. This analyte was biased high in the LCSD. The laboratory control sample (LCS) recovery was within control limits. The associated sample data has been flagged and reported.

The laboratory control sample (LCS) for analytical batch 460-556564 recovered outside control limits for the following analyte: 1,1,2,2-Tetrachloroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples RX-2 (460-165599-4) and FB-20180927 (460-165599-7) were analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 09/28/2018 and analyzed on 09/29/2018.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 460-555885 and analytical batch 460-556000 recovered outside control limits for the following analytes: Atrazine and Caprolactam.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-555885 and analytical batch 460-556000 recovered outside control limits for the following analytes: 2,4-Dichlorophenol, 2-Nitrophenol, 4-Nitrophenol, Acenaphthylene, Di-n-octyl phthalate, Isophorone and Phenol. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples Dup-20180927 (460-165599-1), RX-3_0.5-2.5 (460-165599-2), RX-3_8.0-10.0 (460-165599-3), RX-8_0.5-2.5 (460-165599-5), RX-8_8.0-10.0 (460-165599-6), RX-5_0.5-2.5 (460-165599-9) and RX-5_5.0-7.0 (460-165599-10) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 09/29/2018 and 10/06/2018 and analyzed on 09/30/2018 and 10/07/2018.

The continuing calibration verification (CCV) analyzed in batch 460-556257 was outside the method criteria for the following analyte(s): 4-Nitrophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The surrogate recovery for the blank associated with preparation batch 460-557977 and analytical batch 460-558099 was outside the upper control limits.

The following laboratory control sample (LCS) associated with batch 460-557977 contained one acid/base surrogate outside acceptance limits: (LCS 460-557977/2-A) and (LCS 460-557977/3-A). The laboratory's SOP allows one acid and/or one base surrogate to be outside acceptance limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

2-Fluorobiphenyl failed the surrogate recovery criteria low for RX-8_0.5-2.5 (460-165599-5).

2-Fluorophenol (Surr) failed the surrogate recovery criteria high for LCS 460-556147/3-A.

Bis(2-chloroethyl)ether, Hexachloroethane and Nitrobenzene failed the recovery criteria low for LCS 460-556147/2-A.

Several analytes failed the recovery criteria low for the Matrix Spike (MS) of sample RX-3_8.0-10.0MS (460-165599-3) in batch 460-556257.

Several analytes failed the recovery criteria low for the Matrix Spike Duplicate (MSD) of sample RX-3_8.0-10.0MSD (460-165599-3) in batch 460-556257.

Several analytes failed the recovery criteria low for the MS of sample 460-165999-1 in batch 460-558099.

Several analytes failed the recovery criteria low for the MSD of sample 460-165999-1 in batch 460-558099. Hexachloroethane exceeded the RPD limit.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

TOTAL METALS (ICP/MS)

Samples Dup-20180927 (460-165599-1), RX-3_0.5-2.5 (460-165599-2), RX-3_8.0-10.0 (460-165599-3), RX-8_0.5-2.5 (460-165599-5), RX-8_8.0-10.0 (460-165599-6), RX-5_0.5-2.5 (460-165599-9) and RX-5_5.0-7.0 (460-165599-10) were analyzed for Total Metals (ICP/MS) in accordance with EPA SW-846 Method 6020B. The samples were prepared on 10/02/2018 and 10/09/2018 and analyzed on 10/03/2018 and 10/09/2018.

The method blank for preparation batch 460-556868 and analytical batch 460-557049 contained calcium above the method detection limit. This target analyte concentration was less than 10% of the sample concentration; therefore, re-extraction and/or re-analysis of samples was not performed.

Several analytes failed the recovery criteria low for the MS of sample 460-165388-5 in batch 460-556984. Aluminum, Iron and Vanadium failed the recovery criteria high.

For the MSD of sample 460-165388-5 in batch 460-556984, Several analytes failed the recovery criteria low. Magnesium failed the recovery criteria high. Also, Lead exceeded the RPD limit.

Antimony and Iron failed the recovery criteria low for the MS of sample RX-5_5.0-7.0MS (460-165599-10) in batch 460-558794. Calcium, Magnesium and Manganese failed the recovery criteria high.

Antimony, Iron and Magnesium failed the recovery criteria low for the MS of sample 460-165782-2 in batch 460-557049. Aluminum, Barium and Calcium failed the recovery criteria high.

Copper, Iron, Lead, Manganese, Selenium and Zinc exceeded the RPD limit for the duplicate of sample 460-165388-5. for the duplicate of sample RX-5_5.0-7.0DU (460-165599-10). for the duplicate of sample 460-165782-2.

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

Refer to the QC report for details.

Sample RX-3_8.0-10.0 (460-165599-3)[100X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

METALS

Samples RX-2 (460-165599-4) and FB-20180927 (460-165599-7) were analyzed for Metals in accordance with 6020B. The samples were prepared on 09/29/2018 and analyzed on 09/30/2018 and 10/01/2018.

Calcium, Nickel and Sodium failed the recovery criteria high for the MS of sample 460-164479-1 in batch 460-556483.

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

Refer to the QC report for details.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples RX-2 (460-165599-4) and FB-20180927 (460-165599-7) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 10/02/2018.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples Dup-20180927 (460-165599-1), RX-3_0.5-2.5 (460-165599-2), RX-3_8.0-10.0 (460-165599-3), RX-8_0.5-2.5 (460-165599-5), RX-8_8.0-10.0 (460-165599-6), RX-5_0.5-2.5 (460-165599-9) and RX-5_5.0-7.0 (460-165599-10) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 10/03/2018 and 10/11/2018.

Mercury failed the recovery criteria high for the MS of sample 460-165588-3 in batch 460-557053.

Refer to the QC report for details.

No other difficulties were encountered during the Hg analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples Dup-20180927 (460-165599-1), RX-3_0.5-2.5 (460-165599-2), RX-3_8.0-10.0 (460-165599-3), RX-8_0.5-2.5 (460-165599-5), RX-8_8.0-10.0 (460-165599-6), RX-5_0.5-2.5 (460-165599-9) and RX-5_5.0-7.0 (460-165599-10) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 10/02/2018 and 10/08/2018.

Percent Moisture exceeded the RPD limit for the duplicate of sample 460-165619-7.

Refer to the QC report for details.

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

All other quality control parameters were within the acceptance limits.

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-165599-1	Dup-20180927	Solid	09/27/18 00:00	09/27/18 20:20
460-165599-2	RX-3_0.5-2.5	Solid	09/27/18 11:45	09/27/18 20:20
460-165599-3	RX-3_8.0-10.0	Solid	09/27/18 11:30	09/27/18 20:20
460-165599-4	RX-2	Water	09/27/18 12:30	09/27/18 20:20
460-165599-5	RX-8_0.5-2.5	Solid	09/27/18 13:15	09/27/18 20:20
460-165599-6	RX-8_8.0-10.0	Solid	09/27/18 13:30	09/27/18 20:20
460-165599-7	FB-20180927	Water	09/27/18 14:45	09/27/18 20:20
460-165599-8	Trip Blank	Water	09/27/18 00:00	09/27/18 20:20
460-165599-9	RX-5_0.5-2.5	Solid	09/27/18 15:30	09/27/18 20:20
460-165599-10	RX-5_5.0-7.0	Solid	09/27/18 15:45	09/27/18 20:20

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: Dup-20180927

Lab Sample ID: 460-165599-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0024	J	0.0063	0.0014	mg/Kg	1	☼	8260C	Total/NA
Acetone	0.013		0.0063	0.0048	mg/Kg	1	☼	8260C	Total/NA
Acenaphthylene	0.023	J	0.48	0.0050	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.034	J	0.48	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.12		0.048	0.017	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.10		0.048	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.14		0.048	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.098	J	0.48	0.014	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.059		0.048	0.0095	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.026	J	0.48	0.0057	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.11	J	0.48	0.0082	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.023	J	0.048	0.021	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.012	J	0.48	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.21	J	0.48	0.0063	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.019	J	0.48	0.0066	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.095		0.048	0.019	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.17	J	0.48	0.0085	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.20	J	0.48	0.012	mg/Kg	1	☼	8270D	Total/NA
Aluminum	11500		27.7	9.5	mg/Kg	20	☼	6020B	Total/NA
Arsenic	8.9		1.4	0.44	mg/Kg	20	☼	6020B	Total/NA
Barium	157		2.8	0.92	mg/Kg	20	☼	6020B	Total/NA
Beryllium	0.59		0.55	0.22	mg/Kg	20	☼	6020B	Total/NA
Cadmium	1.3	J	1.4	0.46	mg/Kg	20	☼	6020B	Total/NA
Calcium	40100		138	41.1	mg/Kg	20	☼	6020B	Total/NA
Chromium	23.7		2.8	0.83	mg/Kg	20	☼	6020B	Total/NA
Cobalt	8.9		2.8	0.83	mg/Kg	20	☼	6020B	Total/NA
Copper	194		2.8	0.79	mg/Kg	20	☼	6020B	Total/NA
Iron	19600		83.0	29.0	mg/Kg	20	☼	6020B	Total/NA
Lead	207		0.83	0.26	mg/Kg	20	☼	6020B	Total/NA
Magnesium	22600		138	38.4	mg/Kg	20	☼	6020B	Total/NA
Manganese	355		5.5	1.7	mg/Kg	20	☼	6020B	Total/NA
Nickel	25.2		2.8	0.90	mg/Kg	20	☼	6020B	Total/NA
Potassium	2000		138	49.8	mg/Kg	20	☼	6020B	Total/NA
Selenium	0.75	J	6.9	0.40	mg/Kg	20	☼	6020B	Total/NA
Sodium	631		138	43.3	mg/Kg	20	☼	6020B	Total/NA
Thallium	0.42	J	0.55	0.17	mg/Kg	20	☼	6020B	Total/NA
Vanadium	35.7		2.8	0.79	mg/Kg	20	☼	6020B	Total/NA
Zinc	718		11.1	5.4	mg/Kg	20	☼	6020B	Total/NA
Mercury	0.76		0.025	0.015	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: RX-3_0.5-2.5

Lab Sample ID: 460-165599-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0033	J	0.0067	0.0015	mg/Kg	1	☼	8260C	Total/NA
Acetone	0.017		0.0067	0.0051	mg/Kg	1	☼	8260C	Total/NA
2-Methylnaphthalene	0.036	J	0.49	0.0062	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.013	J	0.49	0.0051	mg/Kg	1	☼	8270D	Total/NA
Acetophenone	0.011	J	0.49	0.0080	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.014	J	0.49	0.0055	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.072		0.049	0.017	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-3_0.5-2.5 (Continued)

Lab Sample ID: 460-165599-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]pyrene	0.061		0.049	0.013	mg/Kg	1	☼		8270D	Total/NA
Benzo[b]fluoranthene	0.10		0.049	0.013	mg/Kg	1	☼		8270D	Total/NA
Benzo[g,h,i]perylene	0.052	J	0.49	0.015	mg/Kg	1	☼		8270D	Total/NA
Benzo[k]fluoranthene	0.034	J	0.049	0.0097	mg/Kg	1	☼		8270D	Total/NA
Chrysene	0.084	J	0.49	0.0084	mg/Kg	1	☼		8270D	Total/NA
Di-n-butyl phthalate	0.12	J	0.49	0.087	mg/Kg	1	☼		8270D	Total/NA
Fluoranthene	0.11	J	0.49	0.0064	mg/Kg	1	☼		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.054		0.049	0.019	mg/Kg	1	☼		8270D	Total/NA
Naphthalene	0.038	J	0.49	0.0085	mg/Kg	1	☼		8270D	Total/NA
Phenanthrene	0.067	J	0.49	0.0087	mg/Kg	1	☼		8270D	Total/NA
Pyrene	0.11	J	0.49	0.012	mg/Kg	1	☼		8270D	Total/NA
Aluminum	7660		26.3	9.0	mg/Kg	20	☼		6020B	Total/NA
Arsenic	7.2		1.3	0.42	mg/Kg	20	☼		6020B	Total/NA
Barium	118		2.6	0.87	mg/Kg	20	☼		6020B	Total/NA
Beryllium	0.43	J	0.53	0.21	mg/Kg	20	☼		6020B	Total/NA
Cadmium	1.9		1.3	0.44	mg/Kg	20	☼		6020B	Total/NA
Calcium	24300		131	39.0	mg/Kg	20	☼		6020B	Total/NA
Chromium	16.4		2.6	0.79	mg/Kg	20	☼		6020B	Total/NA
Cobalt	7.0		2.6	0.79	mg/Kg	20	☼		6020B	Total/NA
Copper	192		2.6	0.75	mg/Kg	20	☼		6020B	Total/NA
Iron	17100		78.8	27.6	mg/Kg	20	☼		6020B	Total/NA
Lead	175		0.79	0.25	mg/Kg	20	☼		6020B	Total/NA
Magnesium	15000		131	36.5	mg/Kg	20	☼		6020B	Total/NA
Manganese	268		5.3	1.6	mg/Kg	20	☼		6020B	Total/NA
Nickel	20.0		2.6	0.85	mg/Kg	20	☼		6020B	Total/NA
Potassium	1270		131	47.3	mg/Kg	20	☼		6020B	Total/NA
Selenium	0.58	J	6.6	0.38	mg/Kg	20	☼		6020B	Total/NA
Sodium	423		131	41.1	mg/Kg	20	☼		6020B	Total/NA
Thallium	0.33	J	0.53	0.16	mg/Kg	20	☼		6020B	Total/NA
Vanadium	24.9		2.6	0.75	mg/Kg	20	☼		6020B	Total/NA
Zinc	693		10.5	5.1	mg/Kg	20	☼		6020B	Total/NA
Mercury	0.55		0.023	0.014	mg/Kg	1	☼		7471B	Total/NA

Client Sample ID: RX-3_8.0-10.0

Lab Sample ID: 460-165599-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.00024	J	0.0011	0.00010	mg/Kg	1	☼		8260C	Total/NA
2-Butanone (MEK)	0.0049	J	0.0054	0.0012	mg/Kg	1	☼		8260C	Total/NA
Acetone	0.028		0.0054	0.0041	mg/Kg	1	☼		8260C	Total/NA
Benzene	0.00044	J	0.0011	0.00028	mg/Kg	1	☼		8260C	Total/NA
Carbon disulfide	0.0019		0.0011	0.00029	mg/Kg	1	☼		8260C	Total/NA
Ethylbenzene	0.00034	J	0.0011	0.00021	mg/Kg	1	☼		8260C	Total/NA
Isopropylbenzene	0.00074	J	0.0011	0.00014	mg/Kg	1	☼		8260C	Total/NA
m-Xylene & p-Xylene	0.00033	J B	0.0011	0.00019	mg/Kg	1	☼		8260C	Total/NA
N-Propylbenzene	0.0011		0.0011	0.00019	mg/Kg	1	☼		8260C	Total/NA
o-Xylene	0.00017	J	0.0011	0.00010	mg/Kg	1	☼		8260C	Total/NA
tert-Butylbenzene	0.00043	J	0.0011	0.00013	mg/Kg	1	☼		8260C	Total/NA
Trichloroethene	0.00094	J B	0.0011	0.00015	mg/Kg	1	☼		8260C	Total/NA
Xylenes, Total	0.00050	J	0.0022	0.00027	mg/Kg	1	☼		8260C	Total/NA
Benzo[a]anthracene	0.027	J	0.037	0.013	mg/Kg	1	☼		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-3_8.0-10.0 (Continued)

Lab Sample ID: 460-165599-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.015	J	0.037	0.0099	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.024	J	0.037	0.0096	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.011	J	0.37	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.0092	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.022	J	0.37	0.0063	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.031	J	0.37	0.0048	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.020	J	0.37	0.0065	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.033	J	0.37	0.0093	mg/Kg	1	☼	8270D	Total/NA
Aluminum	8190		21.1	7.2	mg/Kg	20	☼	6020B	Total/NA
Arsenic	1.0	J	1.1	0.34	mg/Kg	20	☼	6020B	Total/NA
Barium	24.1		2.1	0.70	mg/Kg	20	☼	6020B	Total/NA
Beryllium	0.24	J	0.42	0.17	mg/Kg	20	☼	6020B	Total/NA
Calcium	182000	B	528	157	mg/Kg	100	☼	6020B	Total/NA
Chromium	10.7		2.1	0.63	mg/Kg	20	☼	6020B	Total/NA
Cobalt	2.3		2.1	0.64	mg/Kg	20	☼	6020B	Total/NA
Copper	7.0		2.1	0.60	mg/Kg	20	☼	6020B	Total/NA
Iron	6690		63.3	22.2	mg/Kg	20	☼	6020B	Total/NA
Lead	23.9		0.63	0.20	mg/Kg	20	☼	6020B	Total/NA
Magnesium	94300		106	29.3	mg/Kg	20	☼	6020B	Total/NA
Manganese	167		4.2	1.3	mg/Kg	20	☼	6020B	Total/NA
Nickel	6.1		2.1	0.69	mg/Kg	20	☼	6020B	Total/NA
Potassium	2340		106	38.0	mg/Kg	20	☼	6020B	Total/NA
Sodium	1010		106	33.0	mg/Kg	20	☼	6020B	Total/NA
Vanadium	11.5		2.1	0.60	mg/Kg	20	☼	6020B	Total/NA
Zinc	38.2		8.4	4.1	mg/Kg	20	☼	6020B	Total/NA
Mercury	0.036		0.019	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: RX-2

Lab Sample ID: 460-165599-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.2		1.0	0.37	ug/L	1		8260C	Total/NA
1,3,5-Trimethylbenzene	4.0		1.0	0.33	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	14		5.0	1.9	ug/L	1		8260C	Total/NA
Acetone	21		5.0	5.0	ug/L	1		8260C	Total/NA
Benzene	54	*	1.0	0.43	ug/L	1		8260C	Total/NA
Chloroethane	0.97	J	1.0	0.32	ug/L	1		8260C	Total/NA
Cyclohexane	36		1.0	0.32	ug/L	1		8260C	Total/NA
Ethylbenzene	28		1.0	0.30	ug/L	1		8260C	Total/NA
Isopropylbenzene	280		1.0	0.34	ug/L	1		8260C	Total/NA
Methylcyclohexane	72		1.0	0.26	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	7.1		1.0	0.30	ug/L	1		8260C	Total/NA
n-Butylbenzene	45		1.0	0.32	ug/L	1		8260C	Total/NA
N-Propylbenzene	740	E *	1.0	0.32	ug/L	1		8260C	Total/NA
o-Xylene	1.5		1.0	0.36	ug/L	1		8260C	Total/NA
sec-Butylbenzene	28		1.0	0.37	ug/L	1		8260C	Total/NA
tert-Butylbenzene	2.4		1.0	0.34	ug/L	1		8260C	Total/NA
Toluene	5.5		1.0	0.38	ug/L	1		8260C	Total/NA
Xylenes, Total	8.7		2.0	0.65	ug/L	1		8260C	Total/NA
2-Methylnaphthalene	62		10	1.1	ug/L	1		8270D	Total/NA
Naphthalene	90		10	1.1	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-2 (Continued)

Lab Sample ID: 460-165599-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	8870		40.0	18.8	ug/L	2		6020B	Total/NA
Antimony	1.3	J	2.0	0.62	ug/L	2		6020B	Total/NA
Arsenic	16.1		2.0	0.73	ug/L	2		6020B	Total/NA
Barium	258		4.0	1.2	ug/L	2		6020B	Total/NA
Beryllium	0.86		0.80	0.25	ug/L	2		6020B	Total/NA
Calcium	173000		200	67.6	ug/L	2		6020B	Total/NA
Chromium	23.4		4.0	2.3	ug/L	2		6020B	Total/NA
Cobalt	5.4		4.0	1.6	ug/L	2		6020B	Total/NA
Copper	41.2		4.0	2.0	ug/L	2		6020B	Total/NA
Iron	19400		120	51.1	ug/L	2		6020B	Total/NA
Lead	209		1.2	0.55	ug/L	2		6020B	Total/NA
Magnesium	46900		200	73.7	ug/L	2		6020B	Total/NA
Manganese	726		8.0	2.9	ug/L	2		6020B	Total/NA
Nickel	15.1		4.0	2.4	ug/L	2		6020B	Total/NA
Potassium	28500		200	86.7	ug/L	2		6020B	Total/NA
Sodium	335000		200	128	ug/L	2		6020B	Total/NA
Thallium	0.38	J	0.80	0.16	ug/L	2		6020B	Total/NA
Vanadium	20.8		4.0	1.1	ug/L	2		6020B	Total/NA
Zinc	101		16.0	11.1	ug/L	2		6020B	Total/NA

Client Sample ID: RX-8_0.5-2.5

Lab Sample ID: 460-165599-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0024	J	0.0054	0.0012	mg/Kg	1	☼	8260C	Total/NA
Acetone	0.0095		0.0054	0.0041	mg/Kg	1	☼	8260C	Total/NA
2-Methylnaphthalene	0.0088	J	0.35	0.0044	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0084	J	0.35	0.0040	mg/Kg	1	☼	8270D	Total/NA
Benzaldehyde	0.016	J	0.35	0.015	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.052		0.035	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.044		0.035	0.0095	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.065		0.035	0.0092	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.031	J	0.35	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.024	J	0.035	0.0070	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.063	J	0.35	0.0060	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.088	J	0.35	0.0046	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.031	J	0.035	0.014	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.010	J	0.35	0.0061	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.058	J	0.35	0.0062	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.090	J	0.35	0.0088	mg/Kg	1	☼	8270D	Total/NA
Aluminum	7090		19.2	6.6	mg/Kg	20	☼	6020B	Total/NA
Antimony	0.79	J	0.96	0.28	mg/Kg	20	☼	6020B	Total/NA
Arsenic	5.7		0.96	0.31	mg/Kg	20	☼	6020B	Total/NA
Barium	185		1.9	0.64	mg/Kg	20	☼	6020B	Total/NA
Beryllium	0.25	J	0.38	0.15	mg/Kg	20	☼	6020B	Total/NA
Cadmium	2.3		0.96	0.32	mg/Kg	20	☼	6020B	Total/NA
Calcium	38400	B	96.0	28.5	mg/Kg	20	☼	6020B	Total/NA
Chromium	14.2		1.9	0.58	mg/Kg	20	☼	6020B	Total/NA
Cobalt	4.0		1.9	0.58	mg/Kg	20	☼	6020B	Total/NA
Copper	473		1.9	0.55	mg/Kg	20	☼	6020B	Total/NA
Iron	17100		57.6	20.2	mg/Kg	20	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-8_0.5-2.5 (Continued)

Lab Sample ID: 460-165599-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Lead	263		0.58	0.18	mg/Kg	20	✖	6020B		Total/NA
Magnesium	14500		96.0	26.7	mg/Kg	20	✖	6020B		Total/NA
Manganese	177		3.8	1.2	mg/Kg	20	✖	6020B		Total/NA
Nickel	15.0		1.9	0.62	mg/Kg	20	✖	6020B		Total/NA
Potassium	913		96.0	34.6	mg/Kg	20	✖	6020B		Total/NA
Selenium	0.46	J	4.8	0.28	mg/Kg	20	✖	6020B		Total/NA
Sodium	314		96.0	30.0	mg/Kg	20	✖	6020B		Total/NA
Thallium	0.13	J	0.38	0.12	mg/Kg	20	✖	6020B		Total/NA
Vanadium	20.4		1.9	0.55	mg/Kg	20	✖	6020B		Total/NA
Zinc	898		7.7	3.7	mg/Kg	20	✖	6020B		Total/NA
Mercury	0.22		0.017	0.0099	mg/Kg	1	✖	7471B		Total/NA

Client Sample ID: RX-8_8.0-10.0

Lab Sample ID: 460-165599-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0024	J	0.0051	0.0011	mg/Kg	1	✖	8260C		Total/NA
Acetone	0.014		0.0051	0.0039	mg/Kg	1	✖	8260C		Total/NA
Carbon disulfide	0.00067	J	0.0010	0.00027	mg/Kg	1	✖	8260C		Total/NA
Aluminum	7380		20.4	7.0	mg/Kg	20	✖	6020B		Total/NA
Arsenic	2.6		1.0	0.33	mg/Kg	20	✖	6020B		Total/NA
Barium	48.7		2.0	0.68	mg/Kg	20	✖	6020B		Total/NA
Beryllium	0.26	J	0.41	0.16	mg/Kg	20	✖	6020B		Total/NA
Calcium	33600	B	102	30.2	mg/Kg	20	✖	6020B		Total/NA
Chromium	13.2		2.0	0.61	mg/Kg	20	✖	6020B		Total/NA
Cobalt	6.0		2.0	0.61	mg/Kg	20	✖	6020B		Total/NA
Copper	26.1		2.0	0.58	mg/Kg	20	✖	6020B		Total/NA
Iron	11600		61.1	21.4	mg/Kg	20	✖	6020B		Total/NA
Lead	30.1		0.61	0.19	mg/Kg	20	✖	6020B		Total/NA
Magnesium	18600		102	28.3	mg/Kg	20	✖	6020B		Total/NA
Manganese	146		4.1	1.2	mg/Kg	20	✖	6020B		Total/NA
Nickel	12.9		2.0	0.66	mg/Kg	20	✖	6020B		Total/NA
Potassium	1260		102	36.6	mg/Kg	20	✖	6020B		Total/NA
Selenium	0.38	J	5.1	0.30	mg/Kg	20	✖	6020B		Total/NA
Sodium	429		102	31.9	mg/Kg	20	✖	6020B		Total/NA
Vanadium	16.1		2.0	0.58	mg/Kg	20	✖	6020B		Total/NA
Zinc	138		8.1	4.0	mg/Kg	20	✖	6020B		Total/NA
Mercury	0.012	J	0.019	0.011	mg/Kg	1	✖	7471B		Total/NA

Client Sample ID: FB-20180927

Lab Sample ID: 460-165599-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methylene Chloride	0.40	J	1.0	0.32	ug/L	1			8260C	Total/NA
Antimony	0.67	J	2.0	0.62	ug/L	2			6020B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 460-165599-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methylene Chloride	0.36	J	1.0	0.32	ug/L	1			8260C	Total/NA

Client Sample ID: RX-5_0.5-2.5

Lab Sample ID: 460-165599-9

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-5_0.5-2.5 (Continued)

Lab Sample ID: 460-165599-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0023	J	0.0053	0.0012	mg/Kg	1	☼		8260C	Total/NA
Acetone	0.018		0.0053	0.0040	mg/Kg	1	☼		8260C	Total/NA
Benzo[a]anthracene	0.034	J	0.035	0.012	mg/Kg	1	☼		8270D	Total/NA
Benzo[a]pyrene	0.034	J	0.035	0.0095	mg/Kg	1	☼		8270D	Total/NA
Benzo[b]fluoranthene	0.049		0.035	0.0092	mg/Kg	1	☼		8270D	Total/NA
Benzo[g,h,i]perylene	0.044	J	0.35	0.010	mg/Kg	1	☼		8270D	Total/NA
Benzo[k]fluoranthene	0.018	J	0.035	0.0070	mg/Kg	1	☼		8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.036	J	0.35	0.019	mg/Kg	1	☼		8270D	Total/NA
Chrysene	0.038	J	0.35	0.0060	mg/Kg	1	☼		8270D	Total/NA
Fluoranthene	0.035	J	0.35	0.0046	mg/Kg	1	☼		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.028	J	0.035	0.014	mg/Kg	1	☼		8270D	Total/NA
Phenanthrene	0.015	J	0.35	0.0063	mg/Kg	1	☼		8270D	Total/NA
Pyrene	0.048	J	0.35	0.0088	mg/Kg	1	☼		8270D	Total/NA
Aluminum	5610		19.2	6.6	mg/Kg	20	☼		6020B	Total/NA
Arsenic	3.7		0.96	0.31	mg/Kg	20	☼		6020B	Total/NA
Barium	60.4		1.9	0.64	mg/Kg	20	☼		6020B	Total/NA
Beryllium	0.26	J	0.38	0.15	mg/Kg	20	☼		6020B	Total/NA
Cadmium	0.66	J	0.96	0.32	mg/Kg	20	☼		6020B	Total/NA
Calcium	63700	B	96.1	28.5	mg/Kg	20	☼		6020B	Total/NA
Chromium	10.4		1.9	0.58	mg/Kg	20	☼		6020B	Total/NA
Cobalt	4.2		1.9	0.58	mg/Kg	20	☼		6020B	Total/NA
Copper	22.7		1.9	0.55	mg/Kg	20	☼		6020B	Total/NA
Iron	11100		57.6	20.2	mg/Kg	20	☼		6020B	Total/NA
Lead	52.2		0.58	0.18	mg/Kg	20	☼		6020B	Total/NA
Magnesium	23700		96.1	26.7	mg/Kg	20	☼		6020B	Total/NA
Manganese	185		3.8	1.2	mg/Kg	20	☼		6020B	Total/NA
Nickel	11.6		1.9	0.63	mg/Kg	20	☼		6020B	Total/NA
Potassium	866		96.1	34.6	mg/Kg	20	☼		6020B	Total/NA
Sodium	311		96.1	30.1	mg/Kg	20	☼		6020B	Total/NA
Vanadium	21.1		1.9	0.55	mg/Kg	20	☼		6020B	Total/NA
Zinc	75.5		7.7	3.7	mg/Kg	20	☼		6020B	Total/NA
Mercury	0.086		0.018	0.010	mg/Kg	1	☼		7471B	Total/NA

Client Sample ID: RX-5_5.0-7.0

Lab Sample ID: 460-165599-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Trichloroethene	0.0010	B	0.0010	0.00015	mg/Kg	1	☼		8260C	Total/NA
Aluminum	8240		19.7	6.8	mg/Kg	20	☼		6020B	Total/NA
Arsenic	2.0		0.99	0.32	mg/Kg	20	☼		6020B	Total/NA
Barium	29.8		2.0	0.65	mg/Kg	20	☼		6020B	Total/NA
Beryllium	0.33	J	0.39	0.16	mg/Kg	20	☼		6020B	Total/NA
Calcium	39000		98.6	29.3	mg/Kg	20	☼		6020B	Total/NA
Chromium	11.1		2.0	0.59	mg/Kg	20	☼		6020B	Total/NA
Cobalt	5.0		2.0	0.59	mg/Kg	20	☼		6020B	Total/NA
Copper	10.8		2.0	0.56	mg/Kg	20	☼		6020B	Total/NA
Iron	11500		59.2	20.7	mg/Kg	20	☼		6020B	Total/NA
Lead	4.8		0.59	0.19	mg/Kg	20	☼		6020B	Total/NA
Magnesium	27800		98.6	27.4	mg/Kg	20	☼		6020B	Total/NA
Manganese	315		3.9	1.2	mg/Kg	20	☼		6020B	Total/NA
Nickel	10.9		2.0	0.64	mg/Kg	20	☼		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-5_5.0-7.0 (Continued)

Lab Sample ID: 460-165599-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Potassium	913		98.6	35.5	mg/Kg	20		☼	6020B	Total/NA
Sodium	1050		98.6	30.9	mg/Kg	20		☼	6020B	Total/NA
Vanadium	14.3		2.0	0.56	mg/Kg	20		☼	6020B	Total/NA
Zinc	33.9		7.9	3.8	mg/Kg	20		☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Method Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
6020B	Metals (ICP/MS)	SW846	TAL EDI
7470A	Mercury (CVAA)	SW846	TAL EDI
7471B	Mercury (CVAA)	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
3010A	Preparation, Total Metals	SW846	TAL EDI
3050B	Preparation, Metals	SW846	TAL EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL EDI
3546	Microwave Extraction	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI
7470A	Preparation, Mercury	SW846	TAL EDI
7471B	Preparation, Mercury	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: Dup-20180927

Date Collected: 09/27/18 00:00

Date Received: 09/27/18 20:20

Lab Sample ID: 460-165599-1

Matrix: Solid

Percent Solids: 68.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0013	U	0.0013	0.00029	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
1,1,2,2-Tetrachloroethane	0.0013	U	0.0013	0.00027	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0013	U	0.0013	0.00038	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
1,1,2-Trichloroethane	0.0013	U	0.0013	0.00022	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
1,1-Dichloroethane	0.0013	U	0.0013	0.00026	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
1,1-Dichloroethene	0.0013	U	0.0013	0.00028	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
1,2,3-Trichlorobenzene	0.0013	U	0.0013	0.00023	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
1,2,4-Trichlorobenzene	0.0013	U	0.0013	0.00012	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
1,2,4-Trimethylbenzene	0.0013	U	0.0013	0.00012	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
1,2-Dibromo-3-Chloropropane	0.0013	U	0.0013	0.00058	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
1,2-Dichlorobenzene	0.0013	U	0.0013	0.00018	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
1,2-Dichloroethane	0.0013	U	0.0013	0.00037	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
1,2-Dichloropropane	0.0013	U	0.0013	0.00053	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
1,3,5-Trimethylbenzene	0.0013	U	0.0013	0.00014	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
1,3-Dichlorobenzene	0.0013	U	0.0013	0.00020	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
1,4-Dichlorobenzene	0.0013	U	0.0013	0.00013	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
1,4-Dioxane	0.025	U	0.025	0.012	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
2-Butanone (MEK)	0.0024	J	0.0063	0.0014	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
2-Hexanone	0.0063	U	0.0063	0.00098	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
4-Methyl-2-pentanone (MIBK)	0.0063	U	0.0063	0.00083	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Acetone	0.013		0.0063	0.0048	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Benzene	0.0013	U	0.0013	0.00032	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Bromoform	0.0013	U	0.0013	0.00053	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Bromomethane	0.0013	U	0.0013	0.00059	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Carbon disulfide	0.0013	U	0.0013	0.00033	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Carbon tetrachloride	0.0013	U	0.0013	0.00023	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Chlorobenzene	0.0013	U	0.0013	0.00022	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Chlorobromomethane	0.0013	U	0.0013	0.00035	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Chlorodibromomethane	0.0013	U	0.0013	0.00024	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Chloroethane	0.0013	U	0.0013	0.00066	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Chloroform	0.0013	U	0.0013	0.00040	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Chloromethane	0.0013	U	0.0013	0.00055	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
cis-1,2-Dichloroethene	0.0013	U	0.0013	0.00019	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
cis-1,3-Dichloropropene	0.0013	U	0.0013	0.00034	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Cyclohexane	0.0013	U	0.0013	0.00028	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Dichlorobromomethane	0.0013	U	0.0013	0.00032	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Dichlorodifluoromethane	0.0013	U	0.0013	0.00042	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Ethylbenzene	0.0013	U	0.0013	0.00025	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Ethylene Dibromide	0.0013	U	0.0013	0.00023	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Isopropylbenzene	0.0013	U	0.0013	0.00016	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Methyl acetate	0.0063	U	0.0063	0.0054	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Methyl tert-butyl ether	0.0013	U	0.0013	0.00016	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Methylcyclohexane	0.0013	U	0.0013	0.00020	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Methylene Chloride	0.0013	U	0.0013	0.00020	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
m-Xylene & p-Xylene	0.0013	U	0.0013	0.00022	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
n-Butylbenzene	0.0013	U	0.0013	0.00018	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
N-Propylbenzene	0.0013	U	0.0013	0.00022	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
o-Xylene	0.0013	U	0.0013	0.00012	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
sec-Butylbenzene	0.0013	U	0.0013	0.00011	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: Dup-20180927

Lab Sample ID: 460-165599-1

Date Collected: 09/27/18 00:00

Matrix: Solid

Date Received: 09/27/18 20:20

Percent Solids: 68.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.0013	U	0.0013	0.00015	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
tert-Butylbenzene	0.0013	U	0.0013	0.00016	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Tetrachloroethene	0.0013	U	0.0013	0.00018	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Toluene	0.0013	U	0.0013	0.00078	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
trans-1,2-Dichloroethene	0.0013	U	0.0013	0.00031	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
trans-1,3-Dichloropropene	0.0013	U	0.0013	0.00033	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Trichloroethene	0.0013	U	0.0013	0.00018	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Trichlorofluoromethane	0.0013	U	0.0013	0.00051	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Vinyl chloride	0.0013	U	0.0013	0.00069	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1
Xylenes, Total	0.0025	U	0.0025	0.00032	mg/Kg	☼	09/28/18 13:26	09/29/18 23:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		78 - 135	09/28/18 13:26	09/29/18 23:19	1
4-Bromofluorobenzene	101		67 - 126	09/28/18 13:26	09/29/18 23:19	1
Dibromofluoromethane (Surr)	102		61 - 149	09/28/18 13:26	09/29/18 23:19	1
Toluene-d8 (Surr)	99		73 - 121	09/28/18 13:26	09/29/18 23:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.48	U	0.48	0.0064	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
1,2,4,5-Tetrachlorobenzene	0.48	U	0.48	0.0063	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
2,2'-oxybis[1-chloropropane]	0.48	U	0.48	0.0088	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
2,3,4,6-Tetrachlorophenol	0.48	U	0.48	0.033	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
2,4,5-Trichlorophenol	0.48	U	0.48	0.016	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
2,4,6-Trichlorophenol	0.19	U	0.19	0.024	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
2,4-Dichlorophenol	0.19	U	0.19	0.010	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
2,4-Dimethylphenol	0.48	U	0.48	0.021	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
2,4-Dinitrophenol	0.39	U	0.39	0.24	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
2,4-Dinitrotoluene	0.098	U	0.098	0.025	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
2,6-Dinitrotoluene	0.098	U	0.098	0.016	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
2-Chloronaphthalene	0.48	U	0.48	0.022	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
2-Chlorophenol	0.48	U	0.48	0.0068	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
2-Methylnaphthalene	0.48	U	0.48	0.0060	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
2-Methylphenol	0.48	U	0.48	0.0078	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
2-Nitroaniline	0.48	U	0.48	0.018	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
2-Nitrophenol	0.48	U	0.48	0.016	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
3 & 4 Methylphenol	0.48	U	0.48	0.0083	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
3,3'-Dichlorobenzidine	0.19	U	0.19	0.073	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
3-Nitroaniline	0.48	U	0.48	0.026	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
4,6-Dinitro-2-methylphenol	0.39	U	0.39	0.079	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
4-Bromophenyl phenyl ether	0.48	U	0.48	0.0063	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
4-Chloro-3-methylphenol	0.48	U	0.48	0.0081	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
4-Chloroaniline	0.48	U	0.48	0.034	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
4-Chlorophenyl phenyl ether	0.48	U	0.48	0.0076	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
4-Methylphenol	0.48	U	0.48	0.0083	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
4-Nitroaniline	0.48	U	0.48	0.018	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
4-Nitrophenol	0.98	U	0.98	0.079	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Acenaphthene	0.48	U	0.48	0.035	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Acenaphthylene	0.023	J	0.48	0.0050	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Acetophenone	0.48	U	0.48	0.0078	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: Dup-20180927

Lab Sample ID: 460-165599-1

Date Collected: 09/27/18 00:00

Matrix: Solid

Date Received: 09/27/18 20:20

Percent Solids: 68.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.034	J	0.48	0.0054	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Atrazine	0.19	U	0.19	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Benzaldehyde	0.48	U	0.48	0.021	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Benzo[a]anthracene	0.12		0.048	0.017	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Benzo[a]pyrene	0.10		0.048	0.013	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Benzo[b]fluoranthene	0.14		0.048	0.013	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Benzo[g,h,i]perylene	0.098	J	0.48	0.014	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Benzo[k]fluoranthene	0.059		0.048	0.0095	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Bis(2-chloroethoxy)methane	0.48	U	0.48	0.017	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Bis(2-chloroethyl)ether	0.048	U *	0.048	0.0059	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Bis(2-ethylhexyl) phthalate	0.48	U	0.48	0.026	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Butyl benzyl phthalate	0.48	U	0.48	0.023	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Caprolactam	0.48	U	0.48	0.029	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Carbazole	0.026	J	0.48	0.0057	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Chrysene	0.11	J	0.48	0.0082	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Dibenz(a,h)anthracene	0.023	J	0.048	0.021	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Dibenzofuran	0.012	J	0.48	0.0068	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Diethyl phthalate	0.48	U	0.48	0.0070	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Dimethyl phthalate	0.48	U	0.48	0.0058	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Di-n-butyl phthalate	0.48	U	0.48	0.085	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Di-n-octyl phthalate	0.48	U	0.48	0.026	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Fluoranthene	0.21	J	0.48	0.0063	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Fluorene	0.019	J	0.48	0.0066	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Hexachlorobenzene	0.048	U	0.048	0.0071	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Hexachlorobutadiene	0.098	U	0.098	0.010	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Hexachlorocyclopentadiene	0.48	U	0.48	0.043	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Hexachloroethane	0.048	U *	0.048	0.0075	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Indeno[1,2,3-cd]pyrene	0.095		0.048	0.019	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Isophorone	0.19	U	0.19	0.013	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Naphthalene	0.48	U	0.48	0.0084	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Nitrobenzene	0.048	U *	0.048	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
N-Nitrosodi-n-propylamine	0.048	U	0.048	0.0077	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
N-Nitrosodiphenylamine	0.48	U	0.48	0.0093	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Pentachlorophenol	0.39	U	0.39	0.099	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Phenanthrene	0.17	J	0.48	0.0085	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Phenol	0.48	U	0.48	0.0072	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1
Pyrene	0.20	J	0.48	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	40		10 - 103	09/29/18 16:09	09/30/18 19:14	1
2-Fluorobiphenyl	45		38 - 95	09/29/18 16:09	09/30/18 19:14	1
2-Fluorophenol (Surr)	59		25 - 92	09/29/18 16:09	09/30/18 19:14	1
Nitrobenzene-d5 (Surr)	48		37 - 94	09/29/18 16:09	09/30/18 19:14	1
Phenol-d5 (Surr)	60		32 - 91	09/29/18 16:09	09/30/18 19:14	1
Terphenyl-d14 (Surr)	49		24 - 109	09/29/18 16:09	09/30/18 19:14	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11500		27.7	9.5	mg/Kg	☼	10/02/18 17:16	10/03/18 02:16	20
Antimony	1.4	U	1.4	0.41	mg/Kg	☼	10/02/18 17:16	10/03/18 02:16	20

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: Dup-20180927

Date Collected: 09/27/18 00:00

Date Received: 09/27/18 20:20

Lab Sample ID: 460-165599-1

Matrix: Solid

Percent Solids: 68.2

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.9		1.4	0.44	mg/Kg	☼	10/02/18 17:16	10/03/18 02:16	20
Barium	157		2.8	0.92	mg/Kg	☼	10/02/18 17:16	10/03/18 02:16	20
Beryllium	0.59		0.55	0.22	mg/Kg	☼	10/02/18 17:16	10/03/18 02:16	20
Cadmium	1.3	J	1.4	0.46	mg/Kg	☼	10/02/18 17:16	10/03/18 02:16	20
Calcium	40100		138	41.1	mg/Kg	☼	10/02/18 17:16	10/03/18 02:16	20
Chromium	23.7		2.8	0.83	mg/Kg	☼	10/02/18 17:16	10/03/18 02:16	20
Cobalt	8.9		2.8	0.83	mg/Kg	☼	10/02/18 17:16	10/03/18 02:16	20
Copper	194		2.8	0.79	mg/Kg	☼	10/02/18 17:16	10/03/18 02:16	20
Iron	19600		83.0	29.0	mg/Kg	☼	10/02/18 17:16	10/03/18 02:16	20
Lead	207		0.83	0.26	mg/Kg	☼	10/02/18 17:16	10/03/18 02:16	20
Magnesium	22600		138	38.4	mg/Kg	☼	10/02/18 17:16	10/03/18 02:16	20
Manganese	355		5.5	1.7	mg/Kg	☼	10/02/18 17:16	10/03/18 02:16	20
Nickel	25.2		2.8	0.90	mg/Kg	☼	10/02/18 17:16	10/03/18 02:16	20
Potassium	2000		138	49.8	mg/Kg	☼	10/02/18 17:16	10/03/18 02:16	20
Selenium	0.75	J	6.9	0.40	mg/Kg	☼	10/02/18 17:16	10/03/18 02:16	20
Silver	1.4	U	1.4	0.85	mg/Kg	☼	10/02/18 17:16	10/03/18 02:16	20
Sodium	631		138	43.3	mg/Kg	☼	10/02/18 17:16	10/03/18 02:16	20
Thallium	0.42	J	0.55	0.17	mg/Kg	☼	10/02/18 17:16	10/03/18 02:16	20
Vanadium	35.7		2.8	0.79	mg/Kg	☼	10/02/18 17:16	10/03/18 02:16	20
Zinc	718		11.1	5.4	mg/Kg	☼	10/02/18 17:16	10/03/18 02:16	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.76		0.025	0.015	mg/Kg	☼	10/03/18 03:58	10/03/18 09:08	1

Client Sample ID: RX-3_0.5-2.5

Date Collected: 09/27/18 11:45

Date Received: 09/27/18 20:20

Lab Sample ID: 460-165599-2

Matrix: Solid

Percent Solids: 66.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0013	U	0.0013	0.00031	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
1,1,2,2-Tetrachloroethane	0.0013	U	0.0013	0.00029	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0013	U	0.0013	0.00040	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
1,1,2-Trichloroethane	0.0013	U	0.0013	0.00024	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
1,1-Dichloroethane	0.0013	U	0.0013	0.00028	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
1,1-Dichloroethene	0.0013	U	0.0013	0.00030	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
1,2,3-Trichlorobenzene	0.0013	U	0.0013	0.00024	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
1,2,4-Trichlorobenzene	0.0013	U	0.0013	0.00012	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
1,2,4-Trimethylbenzene	0.0013	U	0.0013	0.00013	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
1,2-Dibromo-3-Chloropropane	0.0013	U	0.0013	0.00062	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
1,2-Dichlorobenzene	0.0013	U	0.0013	0.00019	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
1,2-Dichloroethane	0.0013	U	0.0013	0.00040	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
1,2-Dichloropropane	0.0013	U	0.0013	0.00057	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
1,3,5-Trimethylbenzene	0.0013	U	0.0013	0.00015	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
1,3-Dichlorobenzene	0.0013	U	0.0013	0.00021	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
1,4-Dichlorobenzene	0.0013	U	0.0013	0.00013	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
1,4-Dioxane	0.027	U	0.027	0.012	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
2-Butanone (MEK)	0.0033	J	0.0067	0.0015	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
2-Hexanone	0.0067	U	0.0067	0.0010	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-3_0.5-2.5

Date Collected: 09/27/18 11:45

Date Received: 09/27/18 20:20

Lab Sample ID: 460-165599-2

Matrix: Solid

Percent Solids: 66.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	0.0067	U	0.0067	0.00089	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Acetone	0.017		0.0067	0.0051	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Benzene	0.0013	U	0.0013	0.00035	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Bromoform	0.0013	U	0.0013	0.00057	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Bromomethane	0.0013	U	0.0013	0.00063	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Carbon disulfide	0.0013	U	0.0013	0.00036	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Carbon tetrachloride	0.0013	U	0.0013	0.00024	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Chlorobenzene	0.0013	U	0.0013	0.00024	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Chlorobromomethane	0.0013	U	0.0013	0.00038	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Chlorodibromomethane	0.0013	U	0.0013	0.00026	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Chloroethane	0.0013	U	0.0013	0.00070	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Chloroform	0.0013	U	0.0013	0.00043	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Chloromethane	0.0013	U	0.0013	0.00058	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
cis-1,2-Dichloroethene	0.0013	U	0.0013	0.00020	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
cis-1,3-Dichloropropene	0.0013	U	0.0013	0.00037	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Cyclohexane	0.0013	U	0.0013	0.00030	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Dichlorobromomethane	0.0013	U	0.0013	0.00034	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Dichlorodifluoromethane	0.0013	U	0.0013	0.00045	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Ethylbenzene	0.0013	U	0.0013	0.00027	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Ethylene Dibromide	0.0013	U	0.0013	0.00024	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Isopropylbenzene	0.0013	U	0.0013	0.00017	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Methyl acetate	0.0067	U	0.0067	0.0058	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Methyl tert-butyl ether	0.0013	U	0.0013	0.00017	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Methylcyclohexane	0.0013	U	0.0013	0.00021	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Methylene Chloride	0.0013	U	0.0013	0.00022	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
m-Xylene & p-Xylene	0.0013	U	0.0013	0.00023	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
n-Butylbenzene	0.0013	U	0.0013	0.00019	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
N-Propylbenzene	0.0013	U	0.0013	0.00023	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
o-Xylene	0.0013	U	0.0013	0.00013	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
sec-Butylbenzene	0.0013	U	0.0013	0.00012	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Styrene	0.0013	U	0.0013	0.00016	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
tert-Butylbenzene	0.0013	U	0.0013	0.00017	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Tetrachloroethene	0.0013	U	0.0013	0.00019	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Toluene	0.0013	U	0.0013	0.00084	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
trans-1,2-Dichloroethene	0.0013	U	0.0013	0.00033	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
trans-1,3-Dichloropropene	0.0013	U	0.0013	0.00036	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Trichloroethene	0.0013	U	0.0013	0.00019	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Trichlorofluoromethane	0.0013	U	0.0013	0.00054	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Vinyl chloride	0.0013	U	0.0013	0.00073	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1
Xylenes, Total	0.0027	U	0.0027	0.00034	mg/Kg	☼	09/28/18 13:27	09/29/18 23:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		78 - 135	09/28/18 13:27	09/29/18 23:43	1
4-Bromofluorobenzene	101		67 - 126	09/28/18 13:27	09/29/18 23:43	1
Dibromofluoromethane (Surr)	101		61 - 149	09/28/18 13:27	09/29/18 23:43	1
Toluene-d8 (Surr)	100		73 - 121	09/28/18 13:27	09/29/18 23:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.49	U	0.49	0.0066	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-3_0.5-2.5

Date Collected: 09/27/18 11:45

Date Received: 09/27/18 20:20

Lab Sample ID: 460-165599-2

Matrix: Solid

Percent Solids: 66.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	0.49	U	0.49	0.0065	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
2,2'-oxybis[1-chloropropane]	0.49	U	0.49	0.0089	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
2,3,4,6-Tetrachlorophenol	0.49	U	0.49	0.034	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
2,4,5-Trichlorophenol	0.49	U	0.49	0.016	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
2,4,6-Trichlorophenol	0.20	U	0.20	0.025	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
2,4-Dichlorophenol	0.20	U	0.20	0.010	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
2,4-Dimethylphenol	0.49	U	0.49	0.022	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
2,4-Dinitrophenol	0.40	U	0.40	0.24	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
2,4-Dinitrotoluene	0.10	U	0.10	0.025	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
2,6-Dinitrotoluene	0.10	U	0.10	0.016	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
2-Chloronaphthalene	0.49	U	0.49	0.023	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
2-Chlorophenol	0.49	U	0.49	0.0069	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
2-Methylnaphthalene	0.036	J	0.49	0.0062	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
2-Methylphenol	0.49	U	0.49	0.0080	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
2-Nitroaniline	0.49	U	0.49	0.018	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
2-Nitrophenol	0.49	U	0.49	0.016	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
3 & 4 Methylphenol	0.49	U	0.49	0.0084	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
3,3'-Dichlorobenzidine	0.20	U	0.20	0.075	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
3-Nitroaniline	0.49	U	0.49	0.027	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
4,6-Dinitro-2-methylphenol	0.40	U	0.40	0.080	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
4-Bromophenyl phenyl ether	0.49	U	0.49	0.0064	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
4-Chloro-3-methylphenol	0.49	U	0.49	0.0082	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
4-Chloroaniline	0.49	U	0.49	0.035	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
4-Chlorophenyl phenyl ether	0.49	U	0.49	0.0078	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
4-Methylphenol	0.49	U	0.49	0.0084	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
4-Nitroaniline	0.49	U	0.49	0.018	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
4-Nitrophenol	1.0	U	1.0	0.081	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Acenaphthene	0.49	U	0.49	0.036	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Acenaphthylene	0.013	J	0.49	0.0051	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Acetophenone	0.011	J	0.49	0.0080	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Anthracene	0.014	J	0.49	0.0055	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Atrazine	0.20	U	0.20	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Benzaldehyde	0.49	U	0.49	0.022	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Benzo[a]anthracene	0.072		0.049	0.017	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Benzo[a]pyrene	0.061		0.049	0.013	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Benzo[b]fluoranthene	0.10		0.049	0.013	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Benzo[g,h,i]perylene	0.052	J	0.49	0.015	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Benzo[k]fluoranthene	0.034	J	0.049	0.0097	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Bis(2-chloroethoxy)methane	0.49	U	0.49	0.017	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Bis(2-chloroethyl)ether	0.049	U *	0.049	0.0060	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Bis(2-ethylhexyl) phthalate	0.49	U	0.49	0.026	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Butyl benzyl phthalate	0.49	U	0.49	0.023	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Caprolactam	0.49	U	0.49	0.030	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Carbazole	0.49	U	0.49	0.0058	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Chrysene	0.084	J	0.49	0.0084	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Dibenz(a,h)anthracene	0.049	U	0.049	0.021	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Dibenzofuran	0.49	U	0.49	0.0069	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Diethyl phthalate	0.49	U	0.49	0.0072	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Dimethyl phthalate	0.49	U	0.49	0.0060	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-3_0.5-2.5

Lab Sample ID: 460-165599-2

Date Collected: 09/27/18 11:45

Matrix: Solid

Date Received: 09/27/18 20:20

Percent Solids: 66.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	0.12	J	0.49	0.087	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Di-n-octyl phthalate	0.49	U	0.49	0.026	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Fluoranthene	0.11	J	0.49	0.0064	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Fluorene	0.49	U	0.49	0.0067	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Hexachlorobenzene	0.049	U	0.049	0.0072	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Hexachlorobutadiene	0.10	U	0.10	0.011	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Hexachlorocyclopentadiene	0.49	U	0.49	0.043	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Hexachloroethane	0.049	U *	0.049	0.0076	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Indeno[1,2,3-cd]pyrene	0.054		0.049	0.019	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Isophorone	0.20	U	0.20	0.013	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Naphthalene	0.038	J	0.49	0.0085	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Nitrobenzene	0.049	U *	0.049	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
N-Nitrosodi-n-propylamine	0.049	U	0.049	0.0079	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
N-Nitrosodiphenylamine	0.49	U	0.49	0.0095	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Pentachlorophenol	0.40	U	0.40	0.10	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Phenanthrene	0.067	J	0.49	0.0087	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Phenol	0.49	U	0.49	0.0073	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1
Pyrene	0.11	J	0.49	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	52		10 - 103	09/29/18 16:09	09/30/18 19:38	1
2-Fluorobiphenyl	44		38 - 95	09/29/18 16:09	09/30/18 19:38	1
2-Fluorophenol (Surr)	72		25 - 92	09/29/18 16:09	09/30/18 19:38	1
Nitrobenzene-d5 (Surr)	53		37 - 94	09/29/18 16:09	09/30/18 19:38	1
Phenol-d5 (Surr)	75		32 - 91	09/29/18 16:09	09/30/18 19:38	1
Terphenyl-d14 (Surr)	43		24 - 109	09/29/18 16:09	09/30/18 19:38	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7660		26.3	9.0	mg/Kg	☼	10/02/18 17:17	10/03/18 02:21	20
Antimony	1.3	U	1.3	0.38	mg/Kg	☼	10/02/18 17:17	10/03/18 02:21	20
Arsenic	7.2		1.3	0.42	mg/Kg	☼	10/02/18 17:17	10/03/18 02:21	20
Barium	118		2.6	0.87	mg/Kg	☼	10/02/18 17:17	10/03/18 02:21	20
Beryllium	0.43	J	0.53	0.21	mg/Kg	☼	10/02/18 17:17	10/03/18 02:21	20
Cadmium	1.9		1.3	0.44	mg/Kg	☼	10/02/18 17:17	10/03/18 02:21	20
Calcium	24300		131	39.0	mg/Kg	☼	10/02/18 17:17	10/03/18 02:21	20
Chromium	16.4		2.6	0.79	mg/Kg	☼	10/02/18 17:17	10/03/18 02:21	20
Cobalt	7.0		2.6	0.79	mg/Kg	☼	10/02/18 17:17	10/03/18 02:21	20
Copper	192		2.6	0.75	mg/Kg	☼	10/02/18 17:17	10/03/18 02:21	20
Iron	17100		78.8	27.6	mg/Kg	☼	10/02/18 17:17	10/03/18 02:21	20
Lead	175		0.79	0.25	mg/Kg	☼	10/02/18 17:17	10/03/18 02:21	20
Magnesium	15000		131	36.5	mg/Kg	☼	10/02/18 17:17	10/03/18 02:21	20
Manganese	268		5.3	1.6	mg/Kg	☼	10/02/18 17:17	10/03/18 02:21	20
Nickel	20.0		2.6	0.85	mg/Kg	☼	10/02/18 17:17	10/03/18 02:21	20
Potassium	1270		131	47.3	mg/Kg	☼	10/02/18 17:17	10/03/18 02:21	20
Selenium	0.58	J	6.6	0.38	mg/Kg	☼	10/02/18 17:17	10/03/18 02:21	20
Silver	1.3	U	1.3	0.81	mg/Kg	☼	10/02/18 17:17	10/03/18 02:21	20
Sodium	423		131	41.1	mg/Kg	☼	10/02/18 17:17	10/03/18 02:21	20
Thallium	0.33	J	0.53	0.16	mg/Kg	☼	10/02/18 17:17	10/03/18 02:21	20
Vanadium	24.9		2.6	0.75	mg/Kg	☼	10/02/18 17:17	10/03/18 02:21	20

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-3_0.5-2.5

Date Collected: 09/27/18 11:45

Date Received: 09/27/18 20:20

Lab Sample ID: 460-165599-2

Matrix: Solid

Percent Solids: 66.8

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	693		10.5	5.1	mg/Kg	☼	10/02/18 17:17	10/03/18 02:21	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.55		0.023	0.014	mg/Kg	☼	10/03/18 03:58	10/03/18 09:10	1

Client Sample ID: RX-3_8.0-10.0

Date Collected: 09/27/18 11:30

Date Received: 09/27/18 20:20

Lab Sample ID: 460-165599-3

Matrix: Solid

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0011	U	0.0011	0.00025	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
1,1,2,2-Tetrachloroethane	0.0011	U	0.0011	0.00023	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0011	U	0.0011	0.00032	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
1,1,2-Trichloroethane	0.0011	U	0.0011	0.00019	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
1,1-Dichloroethane	0.0011	U	0.0011	0.00022	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
1,1-Dichloroethene	0.0011	U	0.0011	0.00024	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
1,2,3-Trichlorobenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
1,2,4-Trichlorobenzene	0.0011	U	0.0011	0.000099	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
1,2,4-Trimethylbenzene	0.00024	J	0.0011	0.00010	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
1,2-Dibromo-3-Chloropropane	0.0011	U	0.0011	0.00049	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
1,2-Dichlorobenzene	0.0011	U	0.0011	0.00015	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
1,2-Dichloroethane	0.0011	U	0.0011	0.00032	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
1,2-Dichloropropane	0.0011	U	0.0011	0.00045	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
1,3,5-Trimethylbenzene	0.0011	U	0.0011	0.00012	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
1,3-Dichlorobenzene	0.0011	U	0.0011	0.00017	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
1,4-Dichlorobenzene	0.0011	U	0.0011	0.00011	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
1,4-Dioxane	0.022	U	0.022	0.0099	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
2-Butanone (MEK)	0.0049	J	0.0054	0.0012	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
2-Hexanone	0.0054	U	0.0054	0.00084	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
4-Methyl-2-pentanone (MIBK)	0.0054	U	0.0054	0.00071	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Acetone	0.028		0.0054	0.0041	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Benzene	0.00044	J	0.0011	0.00028	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Bromoform	0.0011	U	0.0011	0.00046	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Bromomethane	0.0011	U	0.0011	0.00051	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Carbon disulfide	0.0019		0.0011	0.00029	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Carbon tetrachloride	0.0011	U	0.0011	0.00019	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Chlorobenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Chlorobromomethane	0.0011	U	0.0011	0.00030	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Chlorodibromomethane	0.0011	U	0.0011	0.00021	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Chloroethane	0.0011	U	0.0011	0.00056	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Chloroform	0.0011	U	0.0011	0.00034	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Chloromethane	0.0011	U	0.0011	0.00047	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
cis-1,2-Dichloroethene	0.0011	U	0.0011	0.00016	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
cis-1,3-Dichloropropene	0.0011	U	0.0011	0.00029	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Cyclohexane	0.0011	U	0.0011	0.00024	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Dichlorobromomethane	0.0011	U	0.0011	0.00028	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Dichlorodifluoromethane	0.0011	U	0.0011	0.00036	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Ethylbenzene	0.00034	J	0.0011	0.00021	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-3_8.0-10.0

Lab Sample ID: 460-165599-3

Date Collected: 09/27/18 11:30

Matrix: Solid

Date Received: 09/27/18 20:20

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	0.0011	U	0.0011	0.00019	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Isopropylbenzene	0.00074	J	0.0011	0.00014	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Methyl acetate	0.0054	U	0.0054	0.0046	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Methyl tert-butyl ether	0.0011	U	0.0011	0.00013	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Methylcyclohexane	0.0011	U	0.0011	0.00017	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Methylene Chloride	0.0011	U	0.0011	0.00018	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
m-Xylene & p-Xylene	0.00033	J B	0.0011	0.00019	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
n-Butylbenzene	0.0011	U	0.0011	0.00015	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
N-Propylbenzene	0.0011		0.0011	0.00019	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
o-Xylene	0.00017	J	0.0011	0.00010	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
sec-Butylbenzene	0.0011	U	0.0011	0.000095	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Styrene	0.0011	U	0.0011	0.00013	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
tert-Butylbenzene	0.00043	J	0.0011	0.00013	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Tetrachloroethene	0.0011	U	0.0011	0.00015	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Toluene	0.0011	U	0.0011	0.00067	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
trans-1,2-Dichloroethene	0.0011	U	0.0011	0.00026	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
trans-1,3-Dichloropropene	0.0011	U	0.0011	0.00029	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Trichloroethene	0.00094	J B	0.0011	0.00015	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Trichlorofluoromethane	0.0011	U	0.0011	0.00044	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Vinyl chloride	0.0011	U	0.0011	0.00059	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1
Xylenes, Total	0.00050	J	0.0022	0.00027	mg/Kg	☼	09/28/18 13:28	10/03/18 12:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		78 - 135	09/28/18 13:28	10/03/18 12:12	1
4-Bromofluorobenzene	97		67 - 126	09/28/18 13:28	10/03/18 12:12	1
Dibromofluoromethane (Surr)	99		61 - 149	09/28/18 13:28	10/03/18 12:12	1
Toluene-d8 (Surr)	92		73 - 121	09/28/18 13:28	10/03/18 12:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.37	U	0.37	0.0049	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
1,2,4,5-Tetrachlorobenzene	0.37	U	0.37	0.0049	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
2,2'-oxybis[1-chloropropane]	0.37	U	0.37	0.0067	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
2,3,4,6-Tetrachlorophenol	0.37	U	0.37	0.025	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
2,4,5-Trichlorophenol	0.37	U	0.37	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.019	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
2,4-Dichlorophenol	0.15	U	0.15	0.0079	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
2,4-Dimethylphenol	0.37	U	0.37	0.016	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
2,4-Dinitrophenol	0.30	U	0.30	0.18	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
2,4-Dinitrotoluene	0.075	U	0.075	0.019	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
2,6-Dinitrotoluene	0.075	U	0.075	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
2-Chloronaphthalene	0.37	U	0.37	0.017	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
2-Chlorophenol	0.37	U	0.37	0.0052	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
2-Methylnaphthalene	0.37	U	0.37	0.0047	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
2-Methylphenol	0.37	U	0.37	0.0060	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
2-Nitroaniline	0.37	U	0.37	0.014	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
2-Nitrophenol	0.37	U	0.37	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
3 & 4 Methylphenol	0.37	U	0.37	0.0063	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.056	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
3-Nitroaniline	0.37	U	0.37	0.020	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-3_8.0-10.0

Lab Sample ID: 460-165599-3

Date Collected: 09/27/18 11:30

Matrix: Solid

Date Received: 09/27/18 20:20

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	0.30	U	0.30	0.060	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
4-Bromophenyl phenyl ether	0.37	U	0.37	0.0048	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
4-Chloro-3-methylphenol	0.37	U	0.37	0.0062	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
4-Chloroaniline	0.37	U	0.37	0.026	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
4-Chlorophenyl phenyl ether	0.37	U	0.37	0.0059	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
4-Methylphenol	0.37	U	0.37	0.0063	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
4-Nitroaniline	0.37	U	0.37	0.014	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
4-Nitrophenol	0.75	U	0.75	0.061	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Acenaphthene	0.37	U	0.37	0.027	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Acenaphthylene	0.37	U	0.37	0.0039	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Acetophenone	0.37	U	0.37	0.0060	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Anthracene	0.37	U	0.37	0.0042	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Atrazine	0.15	U	0.15	0.0094	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Benzaldehyde	0.37	U	0.37	0.016	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Benzo[a]anthracene	0.027	J	0.037	0.013	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Benzo[a]pyrene	0.015	J	0.037	0.0099	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Benzo[b]fluoranthene	0.024	J	0.037	0.0096	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Benzo[g,h,i]perylene	0.011	J	0.37	0.011	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Benzo[k]fluoranthene	0.0092	J	0.037	0.0073	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Bis(2-chloroethoxy)methane	0.37	U	0.37	0.013	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Bis(2-chloroethyl)ether	0.037	U *	0.037	0.0045	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Bis(2-ethylhexyl) phthalate	0.37	U	0.37	0.020	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Butyl benzyl phthalate	0.37	U	0.37	0.017	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Caprolactam	0.37	U	0.37	0.022	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Carbazole	0.37	U	0.37	0.0044	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Chrysene	0.022	J	0.37	0.0063	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Dibenz(a,h)anthracene	0.037	U	0.037	0.016	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Dibenzofuran	0.37	U	0.37	0.0052	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Diethyl phthalate	0.37	U	0.37	0.0054	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Dimethyl phthalate	0.37	U	0.37	0.0045	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Di-n-butyl phthalate	0.37	U	0.37	0.066	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Di-n-octyl phthalate	0.37	U	0.37	0.020	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Fluoranthene	0.031	J	0.37	0.0048	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Fluorene	0.37	U	0.37	0.0051	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Hexachlorobenzene	0.037	U	0.037	0.0055	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Hexachlorobutadiene	0.075	U	0.075	0.0079	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Hexachlorocyclopentadiene	0.37	U	0.37	0.033	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Hexachloroethane	0.037	U *	0.037	0.0057	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Indeno[1,2,3-cd]pyrene	0.037	U	0.037	0.015	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Isophorone	0.15	U	0.15	0.0098	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Naphthalene	0.37	U	0.37	0.0064	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Nitrobenzene	0.037	U *	0.037	0.0089	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
N-Nitrosodi-n-propylamine	0.037	U	0.037	0.0059	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
N-Nitrosodiphenylamine	0.37	U	0.37	0.0071	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Pentachlorophenol	0.30	U	0.30	0.076	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Phenanthrene	0.020	J	0.37	0.0065	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Phenol	0.37	U	0.37	0.0055	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1
Pyrene	0.033	J	0.37	0.0093	mg/Kg	☼	09/29/18 16:09	09/30/18 15:39	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-3_8.0-10.0

Date Collected: 09/27/18 11:30

Date Received: 09/27/18 20:20

Lab Sample ID: 460-165599-3

Matrix: Solid

Percent Solids: 88.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	48		10 - 103	09/29/18 16:09	09/30/18 15:39	1
2-Fluorobiphenyl	53		38 - 95	09/29/18 16:09	09/30/18 15:39	1
2-Fluorophenol (Surr)	64		25 - 92	09/29/18 16:09	09/30/18 15:39	1
Nitrobenzene-d5 (Surr)	57		37 - 94	09/29/18 16:09	09/30/18 15:39	1
Phenol-d5 (Surr)	60		32 - 91	09/29/18 16:09	09/30/18 15:39	1
Terphenyl-d14 (Surr)	56		24 - 109	09/29/18 16:09	09/30/18 15:39	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8190		21.1	7.2	mg/Kg	☼	10/02/18 19:02	10/03/18 11:35	20
Antimony	1.1	U	1.1	0.31	mg/Kg	☼	10/02/18 19:02	10/03/18 11:35	20
Arsenic	1.0	J	1.1	0.34	mg/Kg	☼	10/02/18 19:02	10/03/18 11:35	20
Barium	24.1		2.1	0.70	mg/Kg	☼	10/02/18 19:02	10/03/18 11:35	20
Beryllium	0.24	J	0.42	0.17	mg/Kg	☼	10/02/18 19:02	10/03/18 11:35	20
Cadmium	1.1	U	1.1	0.35	mg/Kg	☼	10/02/18 19:02	10/03/18 11:35	20
Calcium	182000	B	528	157	mg/Kg	☼	10/02/18 19:02	10/03/18 12:07	100
Chromium	10.7		2.1	0.63	mg/Kg	☼	10/02/18 19:02	10/03/18 11:35	20
Cobalt	2.3		2.1	0.64	mg/Kg	☼	10/02/18 19:02	10/03/18 11:35	20
Copper	7.0		2.1	0.60	mg/Kg	☼	10/02/18 19:02	10/03/18 11:35	20
Iron	6690		63.3	22.2	mg/Kg	☼	10/02/18 19:02	10/03/18 11:35	20
Lead	23.9		0.63	0.20	mg/Kg	☼	10/02/18 19:02	10/03/18 11:35	20
Magnesium	94300		106	29.3	mg/Kg	☼	10/02/18 19:02	10/03/18 11:35	20
Manganese	167		4.2	1.3	mg/Kg	☼	10/02/18 19:02	10/03/18 11:35	20
Nickel	6.1		2.1	0.69	mg/Kg	☼	10/02/18 19:02	10/03/18 11:35	20
Potassium	2340		106	38.0	mg/Kg	☼	10/02/18 19:02	10/03/18 11:35	20
Selenium	5.3	U	5.3	0.31	mg/Kg	☼	10/02/18 19:02	10/03/18 11:35	20
Silver	1.1	U	1.1	0.65	mg/Kg	☼	10/02/18 19:02	10/03/18 11:35	20
Sodium	1010		106	33.0	mg/Kg	☼	10/02/18 19:02	10/03/18 11:35	20
Thallium	0.42	U	0.42	0.13	mg/Kg	☼	10/02/18 19:02	10/03/18 11:35	20
Vanadium	11.5		2.1	0.60	mg/Kg	☼	10/02/18 19:02	10/03/18 11:35	20
Zinc	38.2		8.4	4.1	mg/Kg	☼	10/02/18 19:02	10/03/18 11:35	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.019	0.011	mg/Kg	☼	10/03/18 03:58	10/03/18 09:15	1

Client Sample ID: RX-2

Date Collected: 09/27/18 12:30

Date Received: 09/27/18 20:20

Lab Sample ID: 460-165599-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/02/18 05:21	1
1,1,2,2-Tetrachloroethane	1.0	U *	1.0	0.37	ug/L			10/02/18 05:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/18 05:21	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			10/02/18 05:21	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			10/02/18 05:21	1
1,1-Dichloroethene	1.0	U	1.0	0.12	ug/L			10/02/18 05:21	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			10/02/18 05:21	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			10/02/18 05:21	1
1,2,4-Trimethylbenzene	1.2		1.0	0.37	ug/L			10/02/18 05:21	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-2

Date Collected: 09/27/18 12:30

Date Received: 09/27/18 20:20

Lab Sample ID: 460-165599-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			10/02/18 05:21	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			10/02/18 05:21	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			10/02/18 05:21	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			10/02/18 05:21	1
1,3,5-Trimethylbenzene	4.0		1.0	0.33	ug/L			10/02/18 05:21	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			10/02/18 05:21	1
1,4-Dichlorobenzene	1.0	U	1.0	0.76	ug/L			10/02/18 05:21	1
1,4-Dioxane	50	U	50	28	ug/L			10/02/18 05:21	1
2-Butanone (MEK)	14		5.0	1.9	ug/L			10/02/18 05:21	1
2-Hexanone	5.0	U	5.0	2.9	ug/L			10/02/18 05:21	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.7	ug/L			10/02/18 05:21	1
Acetone	21		5.0	5.0	ug/L			10/02/18 05:21	1
Benzene	54	*	1.0	0.43	ug/L			10/02/18 05:21	1
Bromoform	1.0	U	1.0	0.54	ug/L			10/02/18 05:21	1
Bromomethane	1.0	U	1.0	1.0	ug/L			10/02/18 05:21	1
Carbon disulfide	1.0	U	1.0	0.16	ug/L			10/02/18 05:21	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			10/02/18 05:21	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			10/02/18 05:21	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			10/02/18 05:21	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			10/02/18 05:21	1
Chloroethane	0.97	J	1.0	0.32	ug/L			10/02/18 05:21	1
Chloroform	1.0	U	1.0	0.33	ug/L			10/02/18 05:21	1
Chloromethane	1.0	U	1.0	0.14	ug/L			10/02/18 05:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			10/02/18 05:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/02/18 05:21	1
Cyclohexane	36		1.0	0.32	ug/L			10/02/18 05:21	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			10/02/18 05:21	1
Dichlorodifluoromethane	1.0	U	1.0	0.12	ug/L			10/02/18 05:21	1
Ethylbenzene	28		1.0	0.30	ug/L			10/02/18 05:21	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			10/02/18 05:21	1
Isopropylbenzene	280		1.0	0.34	ug/L			10/02/18 05:21	1
Methyl acetate	5.0	U	5.0	0.31	ug/L			10/02/18 05:21	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			10/02/18 05:21	1
Methylcyclohexane	72		1.0	0.26	ug/L			10/02/18 05:21	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			10/02/18 05:21	1
m-Xylene & p-Xylene	7.1		1.0	0.30	ug/L			10/02/18 05:21	1
n-Butylbenzene	45		1.0	0.32	ug/L			10/02/18 05:21	1
N-Propylbenzene	740	E *	1.0	0.32	ug/L			10/02/18 05:21	1
o-Xylene	1.5		1.0	0.36	ug/L			10/02/18 05:21	1
sec-Butylbenzene	28		1.0	0.37	ug/L			10/02/18 05:21	1
Styrene	1.0	U	1.0	0.42	ug/L			10/02/18 05:21	1
tert-Butylbenzene	2.4		1.0	0.34	ug/L			10/02/18 05:21	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			10/02/18 05:21	1
Toluene	5.5		1.0	0.38	ug/L			10/02/18 05:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/02/18 05:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			10/02/18 05:21	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			10/02/18 05:21	1
Trichlorofluoromethane	1.0	U	1.0	0.14	ug/L			10/02/18 05:21	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			10/02/18 05:21	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-2

Lab Sample ID: 460-165599-4

Date Collected: 09/27/18 12:30

Matrix: Water

Date Received: 09/27/18 20:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	8.7		2.0	0.65	ug/L			10/02/18 05:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		74 - 132					10/02/18 05:21	1
4-Bromofluorobenzene	102		77 - 124					10/02/18 05:21	1
Dibromofluoromethane (Surr)	92		72 - 131					10/02/18 05:21	1
Toluene-d8 (Surr)	115		80 - 120					10/02/18 05:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		09/28/18 16:36	09/29/18 06:47	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		09/28/18 16:36	09/29/18 06:47	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		09/28/18 16:36	09/29/18 06:47	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		09/28/18 16:36	09/29/18 06:47	1
2,4,5-Trichlorophenol	10	U	10	0.28	ug/L		09/28/18 16:36	09/29/18 06:47	1
2,4,6-Trichlorophenol	10	U	10	0.30	ug/L		09/28/18 16:36	09/29/18 06:47	1
2,4-Dichlorophenol	10	U *	10	0.42	ug/L		09/28/18 16:36	09/29/18 06:47	1
2,4-Dimethylphenol	10	U	10	0.24	ug/L		09/28/18 16:36	09/29/18 06:47	1
2,4-Dinitrophenol	20	U	20	14	ug/L		09/28/18 16:36	09/29/18 06:47	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		09/28/18 16:36	09/29/18 06:47	1
2,6-Dinitrotoluene	2.0	U	2.0	0.39	ug/L		09/28/18 16:36	09/29/18 06:47	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		09/28/18 16:36	09/29/18 06:47	1
2-Chlorophenol	10	U	10	0.38	ug/L		09/28/18 16:36	09/29/18 06:47	1
2-Methylnaphthalene	62		10	1.1	ug/L		09/28/18 16:36	09/29/18 06:47	1
2-Methylphenol	10	U	10	0.26	ug/L		09/28/18 16:36	09/29/18 06:47	1
2-Nitroaniline	10	U	10	0.47	ug/L		09/28/18 16:36	09/29/18 06:47	1
2-Nitrophenol	10	U *	10	0.75	ug/L		09/28/18 16:36	09/29/18 06:47	1
3 & 4 Methylphenol	10	U	10	0.24	ug/L		09/28/18 16:36	09/29/18 06:47	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		09/28/18 16:36	09/29/18 06:47	1
3-Nitroaniline	10	U	10	0.96	ug/L		09/28/18 16:36	09/29/18 06:47	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		09/28/18 16:36	09/29/18 06:47	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		09/28/18 16:36	09/29/18 06:47	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		09/28/18 16:36	09/29/18 06:47	1
4-Chloroaniline	10	U	10	1.9	ug/L		09/28/18 16:36	09/29/18 06:47	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		09/28/18 16:36	09/29/18 06:47	1
4-Methylphenol	10	U	10	0.24	ug/L		09/28/18 16:36	09/29/18 06:47	1
4-Nitroaniline	10	U	10	0.54	ug/L		09/28/18 16:36	09/29/18 06:47	1
4-Nitrophenol	20	U *	20	0.69	ug/L		09/28/18 16:36	09/29/18 06:47	1
Acenaphthene	10	U	10	1.1	ug/L		09/28/18 16:36	09/29/18 06:47	1
Acenaphthylene	10	U *	10	0.82	ug/L		09/28/18 16:36	09/29/18 06:47	1
Acetophenone	10	U	10	0.79	ug/L		09/28/18 16:36	09/29/18 06:47	1
Anthracene	10	U	10	0.63	ug/L		09/28/18 16:36	09/29/18 06:47	1
Atrazine	2.0	U *	2.0	1.3	ug/L		09/28/18 16:36	09/29/18 06:47	1
Benzaldehyde	10	U	10	0.59	ug/L		09/28/18 16:36	09/29/18 06:47	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/28/18 16:36	09/29/18 06:47	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/28/18 16:36	09/29/18 06:47	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/28/18 16:36	09/29/18 06:47	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/28/18 16:36	09/29/18 06:47	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/28/18 16:36	09/29/18 06:47	1
Bis(2-chloroethoxy)methane	10	U	10	0.24	ug/L		09/28/18 16:36	09/29/18 06:47	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-2

Date Collected: 09/27/18 12:30

Date Received: 09/27/18 20:20

Lab Sample ID: 460-165599-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	1.0	U	1.0	0.30	ug/L		09/28/18 16:36	09/29/18 06:47	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		09/28/18 16:36	09/29/18 06:47	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		09/28/18 16:36	09/29/18 06:47	1
Caprolactam	10	U *	10	0.68	ug/L		09/28/18 16:36	09/29/18 06:47	1
Carbazole	10	U	10	0.68	ug/L		09/28/18 16:36	09/29/18 06:47	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/28/18 16:36	09/29/18 06:47	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/28/18 16:36	09/29/18 06:47	1
Dibenzofuran	10	U	10	1.1	ug/L		09/28/18 16:36	09/29/18 06:47	1
Diethyl phthalate	10	U	10	0.98	ug/L		09/28/18 16:36	09/29/18 06:47	1
Dimethyl phthalate	10	U	10	0.77	ug/L		09/28/18 16:36	09/29/18 06:47	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		09/28/18 16:36	09/29/18 06:47	1
Di-n-octyl phthalate	10	U *	10	4.8	ug/L		09/28/18 16:36	09/29/18 06:47	1
Fluoranthene	10	U	10	0.84	ug/L		09/28/18 16:36	09/29/18 06:47	1
Fluorene	10	U	10	0.91	ug/L		09/28/18 16:36	09/29/18 06:47	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		09/28/18 16:36	09/29/18 06:47	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		09/28/18 16:36	09/29/18 06:47	1
Hexachlorocyclopentadiene	10	U	10	1.7	ug/L		09/28/18 16:36	09/29/18 06:47	1
Hexachloroethane	2.0	U	2.0	1.2	ug/L		09/28/18 16:36	09/29/18 06:47	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/28/18 16:36	09/29/18 06:47	1
Isophorone	10	U *	10	0.80	ug/L		09/28/18 16:36	09/29/18 06:47	1
Naphthalene	90		10	1.1	ug/L		09/28/18 16:36	09/29/18 06:47	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		09/28/18 16:36	09/29/18 06:47	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		09/28/18 16:36	09/29/18 06:47	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		09/28/18 16:36	09/29/18 06:47	1
Pentachlorophenol	20	U	20	1.4	ug/L		09/28/18 16:36	09/29/18 06:47	1
Phenanthrene	10	U	10	0.58	ug/L		09/28/18 16:36	09/29/18 06:47	1
Phenol	10	U *	10	0.29	ug/L		09/28/18 16:36	09/29/18 06:47	1
Pyrene	10	U	10	1.6	ug/L		09/28/18 16:36	09/29/18 06:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	110		26 - 139				09/28/18 16:36	09/29/18 06:47	1
2-Fluorobiphenyl	76		45 - 107				09/28/18 16:36	09/29/18 06:47	1
2-Fluorophenol (Surr)	51		25 - 58				09/28/18 16:36	09/29/18 06:47	1
Nitrobenzene-d5 (Surr)	106		51 - 108				09/28/18 16:36	09/29/18 06:47	1
Phenol-d5 (Surr)	32		14 - 39				09/28/18 16:36	09/29/18 06:47	1
Terphenyl-d14 (Surr)	62		40 - 148				09/28/18 16:36	09/29/18 06:47	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8870		40.0	18.8	ug/L		09/29/18 22:15	09/30/18 21:32	2
Antimony	1.3	J	2.0	0.62	ug/L		09/29/18 22:15	09/30/18 21:32	2
Arsenic	16.1		2.0	0.73	ug/L		09/29/18 22:15	09/30/18 21:32	2
Barium	258		4.0	1.2	ug/L		09/29/18 22:15	09/30/18 21:32	2
Beryllium	0.86		0.80	0.25	ug/L		09/29/18 22:15	09/30/18 21:32	2
Cadmium	2.0	U	2.0	0.81	ug/L		09/29/18 22:15	09/30/18 21:32	2
Calcium	173000		200	67.6	ug/L		09/29/18 22:15	09/30/18 21:32	2
Chromium	23.4		4.0	2.3	ug/L		09/29/18 22:15	09/30/18 21:32	2
Cobalt	5.4		4.0	1.6	ug/L		09/29/18 22:15	09/30/18 21:32	2
Copper	41.2		4.0	2.0	ug/L		09/29/18 22:15	09/30/18 21:32	2
Iron	19400		120	51.1	ug/L		09/29/18 22:15	09/30/18 21:32	2

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-2

Date Collected: 09/27/18 12:30

Date Received: 09/27/18 20:20

Lab Sample ID: 460-165599-4

Matrix: Water

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	209		1.2	0.55	ug/L		09/29/18 22:15	09/30/18 21:32	2
Magnesium	46900		200	73.7	ug/L		09/29/18 22:15	10/01/18 13:42	2
Manganese	726		8.0	2.9	ug/L		09/29/18 22:15	09/30/18 21:32	2
Nickel	15.1		4.0	2.4	ug/L		09/29/18 22:15	09/30/18 21:32	2
Potassium	28500		200	86.7	ug/L		09/29/18 22:15	09/30/18 21:32	2
Selenium	10.0	U	10.0	5.4	ug/L		09/29/18 22:15	09/30/18 21:32	2
Silver	2.0	U	2.0	0.59	ug/L		09/29/18 22:15	09/30/18 21:32	2
Sodium	335000		200	128	ug/L		09/29/18 22:15	09/30/18 21:32	2
Thallium	0.38	J	0.80	0.16	ug/L		09/29/18 22:15	09/30/18 21:32	2
Vanadium	20.8		4.0	1.1	ug/L		09/29/18 22:15	09/30/18 21:32	2
Zinc	101		16.0	11.1	ug/L		09/29/18 22:15	09/30/18 21:32	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		10/02/18 11:50	10/02/18 14:21	1

Client Sample ID: RX-8_0.5-2.5

Date Collected: 09/27/18 13:15

Date Received: 09/27/18 20:20

Lab Sample ID: 460-165599-5

Matrix: Solid

Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0011	U	0.0011	0.00025	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
1,1,2,2-Tetrachloroethane	0.0011	U	0.0011	0.00023	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0011	U	0.0011	0.00033	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
1,1,2-Trichloroethane	0.0011	U	0.0011	0.00019	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
1,1-Dichloroethane	0.0011	U	0.0011	0.00022	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
1,1-Dichloroethene	0.0011	U	0.0011	0.00024	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
1,2,3-Trichlorobenzene	0.0011	U	0.0011	0.00020	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
1,2,4-Trichlorobenzene	0.0011	U	0.0011	0.000099	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
1,2,4-Trimethylbenzene	0.0011	U	0.0011	0.00010	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
1,2-Dibromo-3-Chloropropane	0.0011	U	0.0011	0.00050	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
1,2-Dichlorobenzene	0.0011	U	0.0011	0.00016	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
1,2-Dichloroethane	0.0011	U	0.0011	0.00032	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
1,2-Dichloropropane	0.0011	U	0.0011	0.00046	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
1,3,5-Trimethylbenzene	0.0011	U	0.0011	0.00012	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
1,3-Dichlorobenzene	0.0011	U	0.0011	0.00017	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
1,4-Dichlorobenzene	0.0011	U	0.0011	0.00011	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
1,4-Dioxane	0.022	U	0.022	0.0099	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
2-Butanone (MEK)	0.0024	J	0.0054	0.0012	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
2-Hexanone	0.0054	U	0.0054	0.00084	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
4-Methyl-2-pentanone (MIBK)	0.0054	U	0.0054	0.00072	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Acetone	0.0095		0.0054	0.0041	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Benzene	0.0011	U	0.0011	0.00028	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Bromoform	0.0011	U	0.0011	0.00046	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Bromomethane	0.0011	U	0.0011	0.00051	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Carbon disulfide	0.0011	U	0.0011	0.00029	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Carbon tetrachloride	0.0011	U	0.0011	0.00020	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Chlorobenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Chlorobromomethane	0.0011	U	0.0011	0.00030	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-8_0.5-2.5

Date Collected: 09/27/18 13:15

Date Received: 09/27/18 20:20

Lab Sample ID: 460-165599-5

Matrix: Solid

Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	0.0011	U	0.0011	0.00021	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Chloroethane	0.0011	U	0.0011	0.00056	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Chloroform	0.0011	U	0.0011	0.00034	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Chloromethane	0.0011	U	0.0011	0.00047	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
cis-1,2-Dichloroethene	0.0011	U	0.0011	0.00016	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
cis-1,3-Dichloropropene	0.0011	U	0.0011	0.00030	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Cyclohexane	0.0011	U	0.0011	0.00024	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Dichlorobromomethane	0.0011	U	0.0011	0.00028	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Dichlorodifluoromethane	0.0011	U	0.0011	0.00037	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Ethylbenzene	0.0011	U	0.0011	0.00022	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Ethylene Dibromide	0.0011	U	0.0011	0.00019	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Isopropylbenzene	0.0011	U	0.0011	0.00014	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Methyl acetate	0.0054	U	0.0054	0.0047	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Methyl tert-butyl ether	0.0011	U	0.0011	0.00014	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Methylcyclohexane	0.0011	U	0.0011	0.00017	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Methylene Chloride	0.0011	U	0.0011	0.00018	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
m-Xylene & p-Xylene	0.0011	U	0.0011	0.00019	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
n-Butylbenzene	0.0011	U	0.0011	0.00015	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
N-Propylbenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
o-Xylene	0.0011	U	0.0011	0.00010	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
sec-Butylbenzene	0.0011	U	0.0011	0.000095	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Styrene	0.0011	U	0.0011	0.00013	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
tert-Butylbenzene	0.0011	U	0.0011	0.00013	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Tetrachloroethene	0.0011	U	0.0011	0.00015	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Toluene	0.0011	U	0.0011	0.00068	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
trans-1,2-Dichloroethene	0.0011	U	0.0011	0.00027	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
trans-1,3-Dichloropropene	0.0011	U	0.0011	0.00029	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Trichloroethene	0.0011	U	0.0011	0.00016	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Trichlorofluoromethane	0.0011	U	0.0011	0.00044	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Vinyl chloride	0.0011	U	0.0011	0.00059	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1
Xylenes, Total	0.0022	U	0.0022	0.00027	mg/Kg	☼	09/28/18 13:29	09/30/18 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		78 - 135	09/28/18 13:29	09/30/18 00:08	1
4-Bromofluorobenzene	102		67 - 126	09/28/18 13:29	09/30/18 00:08	1
Dibromofluoromethane (Surr)	102		61 - 149	09/28/18 13:29	09/30/18 00:08	1
Toluene-d8 (Surr)	99		73 - 121	09/28/18 13:29	09/30/18 00:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.35	U	0.35	0.0047	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
1,2,4,5-Tetrachlorobenzene	0.35	U	0.35	0.0046	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
2,2'-oxybis[1-chloropropane]	0.35	U	0.35	0.0064	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
2,3,4,6-Tetrachlorophenol	0.35	U	0.35	0.024	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
2,4,5-Trichlorophenol	0.35	U	0.35	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.018	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
2,4-Dichlorophenol	0.14	U	0.14	0.0075	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
2,4-Dimethylphenol	0.35	U	0.35	0.016	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
2,4-Dinitrophenol	0.29	U	0.29	0.17	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
2,4-Dinitrotoluene	0.072	U	0.072	0.018	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-8_0.5-2.5

Lab Sample ID: 460-165599-5

Date Collected: 09/27/18 13:15

Matrix: Solid

Date Received: 09/27/18 20:20

Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	0.072	U	0.072	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
2-Chloronaphthalene	0.35	U	0.35	0.016	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
2-Chlorophenol	0.35	U	0.35	0.0050	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
2-Methylnaphthalene	0.0088	J	0.35	0.0044	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
2-Methylphenol	0.35	U	0.35	0.0057	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
2-Nitroaniline	0.35	U	0.35	0.013	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
2-Nitrophenol	0.35	U	0.35	0.011	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
3 & 4 Methylphenol	0.35	U	0.35	0.0061	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
3,3'-Dichlorobenzidine	0.14	U	0.14	0.054	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
3-Nitroaniline	0.35	U	0.35	0.019	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
4,6-Dinitro-2-methylphenol	0.29	U	0.29	0.058	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
4-Bromophenyl phenyl ether	0.35	U	0.35	0.0046	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
4-Chloro-3-methylphenol	0.35	U	0.35	0.0059	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
4-Chloroaniline	0.35	U	0.35	0.025	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
4-Chlorophenyl phenyl ether	0.35	U	0.35	0.0056	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
4-Methylphenol	0.35	U	0.35	0.0061	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
4-Nitroaniline	0.35	U	0.35	0.013	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
4-Nitrophenol	0.72	U	0.72	0.058	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Acenaphthene	0.35	U	0.35	0.026	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Acenaphthylene	0.35	U	0.35	0.0037	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Acetophenone	0.35	U	0.35	0.0057	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Anthracene	0.0084	J	0.35	0.0040	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Atrazine	0.14	U	0.14	0.0090	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Benzaldehyde	0.016	J	0.35	0.015	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Benzo[a]anthracene	0.052		0.035	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Benzo[a]pyrene	0.044		0.035	0.0095	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Benzo[b]fluoranthene	0.065		0.035	0.0092	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Benzo[g,h,i]perylene	0.031	J	0.35	0.010	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Benzo[k]fluoranthene	0.024	J	0.035	0.0070	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Bis(2-chloroethoxy)methane	0.35	U	0.35	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Bis(2-chloroethyl)ether	0.035	U *	0.035	0.0043	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Bis(2-ethylhexyl) phthalate	0.35	U	0.35	0.019	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Butyl benzyl phthalate	0.35	U	0.35	0.017	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Caprolactam	0.35	U	0.35	0.021	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Carbazole	0.35	U	0.35	0.0042	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Chrysene	0.063	J	0.35	0.0060	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Dibenz(a,h)anthracene	0.035	U	0.035	0.015	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Dibenzofuran	0.35	U	0.35	0.0050	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Diethyl phthalate	0.35	U	0.35	0.0051	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Dimethyl phthalate	0.35	U	0.35	0.0043	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Di-n-butyl phthalate	0.35	U	0.35	0.063	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Di-n-octyl phthalate	0.35	U	0.35	0.019	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Fluoranthene	0.088	J	0.35	0.0046	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Fluorene	0.35	U	0.35	0.0048	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Hexachlorobenzene	0.035	U	0.035	0.0052	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Hexachlorobutadiene	0.072	U	0.072	0.0076	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Hexachlorocyclopentadiene	0.35	U	0.35	0.031	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Hexachloroethane	0.035	U *	0.035	0.0055	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Indeno[1,2,3-cd]pyrene	0.031	J	0.035	0.014	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-8_0.5-2.5

Date Collected: 09/27/18 13:15

Date Received: 09/27/18 20:20

Lab Sample ID: 460-165599-5

Matrix: Solid

Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.14	U	0.14	0.0093	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Naphthalene	0.010	J	0.35	0.0061	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Nitrobenzene	0.035	U *	0.035	0.0085	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
N-Nitrosodi-n-propylamine	0.035	U	0.035	0.0057	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
N-Nitrosodiphenylamine	0.35	U	0.35	0.0068	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Pentachlorophenol	0.29	U	0.29	0.073	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Phenanthrene	0.058	J	0.35	0.0062	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Phenol	0.35	U	0.35	0.0053	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Pyrene	0.090	J	0.35	0.0088	mg/Kg	☼	09/29/18 16:09	09/30/18 20:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	22		10 - 103				09/29/18 16:09	09/30/18 20:02	1
2-Fluorobiphenyl	32	*	38 - 95				09/29/18 16:09	09/30/18 20:02	1
2-Fluorophenol (Surr)	51		25 - 92				09/29/18 16:09	09/30/18 20:02	1
Nitrobenzene-d5 (Surr)	38		37 - 94				09/29/18 16:09	09/30/18 20:02	1
Phenol-d5 (Surr)	52		32 - 91				09/29/18 16:09	09/30/18 20:02	1
Terphenyl-d14 (Surr)	32		24 - 109				09/29/18 16:09	09/30/18 20:02	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7090		19.2	6.6	mg/Kg	☼	10/02/18 19:02	10/03/18 11:48	20
Antimony	0.79	J	0.96	0.28	mg/Kg	☼	10/02/18 19:02	10/03/18 11:48	20
Arsenic	5.7		0.96	0.31	mg/Kg	☼	10/02/18 19:02	10/03/18 11:48	20
Barium	185		1.9	0.64	mg/Kg	☼	10/02/18 19:02	10/03/18 11:48	20
Beryllium	0.25	J	0.38	0.15	mg/Kg	☼	10/02/18 19:02	10/03/18 11:48	20
Cadmium	2.3		0.96	0.32	mg/Kg	☼	10/02/18 19:02	10/03/18 11:48	20
Calcium	38400	B	96.0	28.5	mg/Kg	☼	10/02/18 19:02	10/03/18 11:48	20
Chromium	14.2		1.9	0.58	mg/Kg	☼	10/02/18 19:02	10/03/18 11:48	20
Cobalt	4.0		1.9	0.58	mg/Kg	☼	10/02/18 19:02	10/03/18 11:48	20
Copper	473		1.9	0.55	mg/Kg	☼	10/02/18 19:02	10/03/18 11:48	20
Iron	17100		57.6	20.2	mg/Kg	☼	10/02/18 19:02	10/03/18 11:48	20
Lead	263		0.58	0.18	mg/Kg	☼	10/02/18 19:02	10/03/18 11:48	20
Magnesium	14500		96.0	26.7	mg/Kg	☼	10/02/18 19:02	10/03/18 11:48	20
Manganese	177		3.8	1.2	mg/Kg	☼	10/02/18 19:02	10/03/18 11:48	20
Nickel	15.0		1.9	0.62	mg/Kg	☼	10/02/18 19:02	10/03/18 11:48	20
Potassium	913		96.0	34.6	mg/Kg	☼	10/02/18 19:02	10/03/18 11:48	20
Selenium	0.46	J	4.8	0.28	mg/Kg	☼	10/02/18 19:02	10/03/18 11:48	20
Silver	0.96	U	0.96	0.59	mg/Kg	☼	10/02/18 19:02	10/03/18 11:48	20
Sodium	314		96.0	30.0	mg/Kg	☼	10/02/18 19:02	10/03/18 11:48	20
Thallium	0.13	J	0.38	0.12	mg/Kg	☼	10/02/18 19:02	10/03/18 11:48	20
Vanadium	20.4		1.9	0.55	mg/Kg	☼	10/02/18 19:02	10/03/18 11:48	20
Zinc	898		7.7	3.7	mg/Kg	☼	10/02/18 19:02	10/03/18 11:48	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.22		0.017	0.0099	mg/Kg	☼	10/03/18 03:58	10/03/18 09:17	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-8_8.0-10.0

Lab Sample ID: 460-165599-6

Date Collected: 09/27/18 13:30

Matrix: Solid

Date Received: 09/27/18 20:20

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00024	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00022	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00031	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00019	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.000094	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.000096	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00047	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00015	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00043	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00012	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00016	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00010	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
1,4-Dioxane	0.020	U	0.020	0.0094	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
2-Butanone (MEK)	0.0024	J	0.0051	0.0011	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
2-Hexanone	0.0051	U	0.0051	0.00080	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
4-Methyl-2-pentanone (MIBK)	0.0051	U	0.0051	0.00068	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Acetone	0.014		0.0051	0.0039	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Bromoform	0.0010	U	0.0010	0.00044	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Bromomethane	0.0010	U	0.0010	0.00049	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Carbon disulfide	0.00067	J	0.0010	0.00027	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Carbon tetrachloride	0.0010	U	0.0010	0.00019	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Chlorobromomethane	0.0010	U	0.0010	0.00029	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Chlorodibromomethane	0.0010	U	0.0010	0.00020	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Chloroethane	0.0010	U	0.0010	0.00054	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Chloroform	0.0010	U	0.0010	0.00033	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Chloromethane	0.0010	U	0.0010	0.00045	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00016	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00028	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Cyclohexane	0.0010	U	0.0010	0.00023	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00035	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Isopropylbenzene	0.0010	U	0.0010	0.00013	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Methyl acetate	0.0051	U	0.0051	0.0044	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00013	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Methylcyclohexane	0.0010	U	0.0010	0.00016	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Methylene Chloride	0.0010	U	0.0010	0.00017	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00018	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
n-Butylbenzene	0.0010	U	0.0010	0.00015	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
o-Xylene	0.0010	U	0.0010	0.000097	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
sec-Butylbenzene	0.0010	U	0.0010	0.000090	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-8_8.0-10.0

Lab Sample ID: 460-165599-6

Date Collected: 09/27/18 13:30

Matrix: Solid

Date Received: 09/27/18 20:20

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.0010	U	0.0010	0.00013	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
tert-Butylbenzene	0.0010	U	0.0010	0.00013	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Tetrachloroethene	0.0010	U	0.0010	0.00015	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Toluene	0.0010	U	0.0010	0.00064	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Trichloroethene	0.0010	U	0.0010	0.00015	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00042	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Vinyl chloride	0.0010	U	0.0010	0.00056	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1
Xylenes, Total	0.0020	U	0.0020	0.00026	mg/Kg	☼	09/28/18 13:30	09/30/18 00:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		78 - 135	09/28/18 13:30	09/30/18 00:32	1
4-Bromofluorobenzene	100		67 - 126	09/28/18 13:30	09/30/18 00:32	1
Dibromofluoromethane (Surr)	98		61 - 149	09/28/18 13:30	09/30/18 00:32	1
Toluene-d8 (Surr)	99		73 - 121	09/28/18 13:30	09/30/18 00:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.40	U	0.40	0.0053	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
1,2,4,5-Tetrachlorobenzene	0.40	U	0.40	0.0052	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
2,2'-oxybis[1-chloropropane]	0.40	U	0.40	0.0072	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
2,3,4,6-Tetrachlorophenol	0.40	U	0.40	0.027	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
2,4,5-Trichlorophenol	0.40	U	0.40	0.013	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
2,4,6-Trichlorophenol	0.16	U	0.16	0.020	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
2,4-Dichlorophenol	0.16	U	0.16	0.0084	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
2,4-Dimethylphenol	0.40	U	0.40	0.017	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
2,4-Dinitrophenol	0.32	U	0.32	0.19	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
2,4-Dinitrotoluene	0.080	U	0.080	0.020	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
2,6-Dinitrotoluene	0.080	U	0.080	0.013	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
2-Chloronaphthalene	0.40	U	0.40	0.018	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
2-Chlorophenol	0.40	U	0.40	0.0056	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
2-Methylnaphthalene	0.40	U	0.40	0.0050	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
2-Methylphenol	0.40	U	0.40	0.0064	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
2-Nitroaniline	0.40	U	0.40	0.015	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
2-Nitrophenol	0.40	U	0.40	0.013	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
3 & 4 Methylphenol	0.40	U	0.40	0.0068	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
3,3'-Dichlorobenzidine	0.16	U	0.16	0.060	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
3-Nitroaniline	0.40	U	0.40	0.022	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
4,6-Dinitro-2-methylphenol	0.32	U	0.32	0.064	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
4-Bromophenyl phenyl ether	0.40	U	0.40	0.0051	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
4-Chloro-3-methylphenol	0.40	U	0.40	0.0066	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
4-Chloroaniline	0.40	U	0.40	0.028	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
4-Chlorophenyl phenyl ether	0.40	U	0.40	0.0063	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
4-Methylphenol	0.40	U	0.40	0.0068	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
4-Nitroaniline	0.40	U	0.40	0.015	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
4-Nitrophenol	0.80	U	0.80	0.065	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Acenaphthene	0.40	U	0.40	0.029	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Acenaphthylene	0.40	U	0.40	0.0041	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Acetophenone	0.40	U	0.40	0.0064	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-8_8.0-10.0

Date Collected: 09/27/18 13:30

Date Received: 09/27/18 20:20

Lab Sample ID: 460-165599-6

Matrix: Solid

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.40	U	0.40	0.0044	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Atrazine	0.16	U	0.16	0.010	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Benzaldehyde	0.40	U	0.40	0.017	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Benzo[a]anthracene	0.040	U	0.040	0.014	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Benzo[a]pyrene	0.040	U	0.040	0.011	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Benzo[b]fluoranthene	0.040	U	0.040	0.010	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Benzo[g,h,i]perylene	0.40	U	0.40	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Benzo[k]fluoranthene	0.040	U	0.040	0.0078	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Bis(2-chloroethoxy)methane	0.40	U	0.40	0.014	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Bis(2-chloroethyl)ether	0.040	U *	0.040	0.0048	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Bis(2-ethylhexyl) phthalate	0.40	U	0.40	0.021	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Butyl benzyl phthalate	0.40	U	0.40	0.019	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Caprolactam	0.40	U	0.40	0.024	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Carbazole	0.40	U	0.40	0.0046	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Chrysene	0.40	U	0.40	0.0067	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Dibenz(a,h)anthracene	0.040	U	0.040	0.017	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Dibenzofuran	0.40	U	0.40	0.0056	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Diethyl phthalate	0.40	U	0.40	0.0057	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Dimethyl phthalate	0.40	U	0.40	0.0048	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Di-n-butyl phthalate	0.40	U	0.40	0.070	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Di-n-octyl phthalate	0.40	U	0.40	0.021	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Fluoranthene	0.40	U	0.40	0.0052	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Fluorene	0.40	U	0.40	0.0054	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Hexachlorobenzene	0.040	U	0.040	0.0058	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Hexachlorobutadiene	0.080	U	0.080	0.0084	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Hexachlorocyclopentadiene	0.40	U	0.40	0.035	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Hexachloroethane	0.040	U *	0.040	0.0061	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Indeno[1,2,3-cd]pyrene	0.040	U	0.040	0.015	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Isophorone	0.16	U	0.16	0.010	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Naphthalene	0.40	U	0.40	0.0069	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Nitrobenzene	0.040	U *	0.040	0.0095	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
N-Nitrosodi-n-propylamine	0.040	U	0.040	0.0063	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
N-Nitrosodiphenylamine	0.40	U	0.40	0.0076	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Pentachlorophenol	0.32	U	0.32	0.081	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Phenanthrene	0.40	U	0.40	0.0070	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Phenol	0.40	U	0.40	0.0059	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1
Pyrene	0.40	U	0.40	0.0099	mg/Kg	☼	09/29/18 16:09	09/30/18 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	28		10 - 103	09/29/18 16:09	09/30/18 20:25	1
2-Fluorobiphenyl	40		38 - 95	09/29/18 16:09	09/30/18 20:25	1
2-Fluorophenol (Surr)	52		25 - 92	09/29/18 16:09	09/30/18 20:25	1
Nitrobenzene-d5 (Surr)	43		37 - 94	09/29/18 16:09	09/30/18 20:25	1
Phenol-d5 (Surr)	52		32 - 91	09/29/18 16:09	09/30/18 20:25	1
Terphenyl-d14 (Surr)	37		24 - 109	09/29/18 16:09	09/30/18 20:25	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7380		20.4	7.0	mg/Kg	☼	10/02/18 19:02	10/03/18 11:51	20
Antimony	1.0	U	1.0	0.30	mg/Kg	☼	10/02/18 19:02	10/03/18 11:51	20

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-8_8.0-10.0

Lab Sample ID: 460-165599-6

Date Collected: 09/27/18 13:30

Matrix: Solid

Date Received: 09/27/18 20:20

Percent Solids: 83.2

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.6		1.0	0.33	mg/Kg	☼	10/02/18 19:02	10/03/18 11:51	20
Barium	48.7		2.0	0.68	mg/Kg	☼	10/02/18 19:02	10/03/18 11:51	20
Beryllium	0.26	J	0.41	0.16	mg/Kg	☼	10/02/18 19:02	10/03/18 11:51	20
Cadmium	1.0	U	1.0	0.34	mg/Kg	☼	10/02/18 19:02	10/03/18 11:51	20
Calcium	33600	B	102	30.2	mg/Kg	☼	10/02/18 19:02	10/03/18 11:51	20
Chromium	13.2		2.0	0.61	mg/Kg	☼	10/02/18 19:02	10/03/18 11:51	20
Cobalt	6.0		2.0	0.61	mg/Kg	☼	10/02/18 19:02	10/03/18 11:51	20
Copper	26.1		2.0	0.58	mg/Kg	☼	10/02/18 19:02	10/03/18 11:51	20
Iron	11600		61.1	21.4	mg/Kg	☼	10/02/18 19:02	10/03/18 11:51	20
Lead	30.1		0.61	0.19	mg/Kg	☼	10/02/18 19:02	10/03/18 11:51	20
Magnesium	18600		102	28.3	mg/Kg	☼	10/02/18 19:02	10/03/18 11:51	20
Manganese	146		4.1	1.2	mg/Kg	☼	10/02/18 19:02	10/03/18 11:51	20
Nickel	12.9		2.0	0.66	mg/Kg	☼	10/02/18 19:02	10/03/18 11:51	20
Potassium	1260		102	36.6	mg/Kg	☼	10/02/18 19:02	10/03/18 11:51	20
Selenium	0.38	J	5.1	0.30	mg/Kg	☼	10/02/18 19:02	10/03/18 11:51	20
Silver	1.0	U	1.0	0.63	mg/Kg	☼	10/02/18 19:02	10/03/18 11:51	20
Sodium	429		102	31.9	mg/Kg	☼	10/02/18 19:02	10/03/18 11:51	20
Thallium	0.41	U	0.41	0.13	mg/Kg	☼	10/02/18 19:02	10/03/18 11:51	20
Vanadium	16.1		2.0	0.58	mg/Kg	☼	10/02/18 19:02	10/03/18 11:51	20
Zinc	138		8.1	4.0	mg/Kg	☼	10/02/18 19:02	10/03/18 11:51	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.019	0.011	mg/Kg	☼	10/03/18 03:58	10/03/18 09:19	1

Client Sample ID: FB-20180927

Lab Sample ID: 460-165599-7

Date Collected: 09/27/18 14:45

Matrix: Water

Date Received: 09/27/18 20:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/02/18 04:35	1
1,1,2,2-Tetrachloroethane	1.0	U *	1.0	0.37	ug/L			10/02/18 04:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/18 04:35	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			10/02/18 04:35	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			10/02/18 04:35	1
1,1-Dichloroethene	1.0	U	1.0	0.12	ug/L			10/02/18 04:35	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			10/02/18 04:35	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			10/02/18 04:35	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			10/02/18 04:35	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			10/02/18 04:35	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			10/02/18 04:35	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			10/02/18 04:35	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			10/02/18 04:35	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			10/02/18 04:35	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			10/02/18 04:35	1
1,4-Dichlorobenzene	1.0	U	1.0	0.76	ug/L			10/02/18 04:35	1
1,4-Dioxane	50	U	50	28	ug/L			10/02/18 04:35	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			10/02/18 04:35	1
2-Hexanone	5.0	U	5.0	2.9	ug/L			10/02/18 04:35	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: FB-20180927

Lab Sample ID: 460-165599-7

Date Collected: 09/27/18 14:45

Matrix: Water

Date Received: 09/27/18 20:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.7	ug/L			10/02/18 04:35	1
Acetone	5.0	U	5.0	5.0	ug/L			10/02/18 04:35	1
Benzene	1.0	U *	1.0	0.43	ug/L			10/02/18 04:35	1
Bromoform	1.0	U	1.0	0.54	ug/L			10/02/18 04:35	1
Bromomethane	1.0	U	1.0	1.0	ug/L			10/02/18 04:35	1
Carbon disulfide	1.0	U	1.0	0.16	ug/L			10/02/18 04:35	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			10/02/18 04:35	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			10/02/18 04:35	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			10/02/18 04:35	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			10/02/18 04:35	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/18 04:35	1
Chloroform	1.0	U	1.0	0.33	ug/L			10/02/18 04:35	1
Chloromethane	1.0	U	1.0	0.14	ug/L			10/02/18 04:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			10/02/18 04:35	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/02/18 04:35	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			10/02/18 04:35	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			10/02/18 04:35	1
Dichlorodifluoromethane	1.0	U	1.0	0.12	ug/L			10/02/18 04:35	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			10/02/18 04:35	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			10/02/18 04:35	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			10/02/18 04:35	1
Methyl acetate	5.0	U	5.0	0.31	ug/L			10/02/18 04:35	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			10/02/18 04:35	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			10/02/18 04:35	1
Methylene Chloride	0.40	J	1.0	0.32	ug/L			10/02/18 04:35	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			10/02/18 04:35	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			10/02/18 04:35	1
N-Propylbenzene	1.0	U *	1.0	0.32	ug/L			10/02/18 04:35	1
o-Xylene	1.0	U	1.0	0.36	ug/L			10/02/18 04:35	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			10/02/18 04:35	1
Styrene	1.0	U	1.0	0.42	ug/L			10/02/18 04:35	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			10/02/18 04:35	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			10/02/18 04:35	1
Toluene	1.0	U	1.0	0.38	ug/L			10/02/18 04:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/02/18 04:35	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			10/02/18 04:35	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			10/02/18 04:35	1
Trichlorofluoromethane	1.0	U	1.0	0.14	ug/L			10/02/18 04:35	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			10/02/18 04:35	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			10/02/18 04:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		74 - 132		10/02/18 04:35	1
4-Bromofluorobenzene	103		77 - 124		10/02/18 04:35	1
Dibromofluoromethane (Surr)	112		72 - 131		10/02/18 04:35	1
Toluene-d8 (Surr)	114		80 - 120		10/02/18 04:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		09/28/18 16:36	09/29/18 07:08	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: FB-20180927

Lab Sample ID: 460-165599-7

Date Collected: 09/27/18 14:45

Matrix: Water

Date Received: 09/27/18 20:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		09/28/18 16:36	09/29/18 07:08	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		09/28/18 16:36	09/29/18 07:08	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		09/28/18 16:36	09/29/18 07:08	1
2,4,5-Trichlorophenol	10	U	10	0.28	ug/L		09/28/18 16:36	09/29/18 07:08	1
2,4,6-Trichlorophenol	10	U	10	0.30	ug/L		09/28/18 16:36	09/29/18 07:08	1
2,4-Dichlorophenol	10	U *	10	0.42	ug/L		09/28/18 16:36	09/29/18 07:08	1
2,4-Dimethylphenol	10	U	10	0.24	ug/L		09/28/18 16:36	09/29/18 07:08	1
2,4-Dinitrophenol	20	U	20	14	ug/L		09/28/18 16:36	09/29/18 07:08	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		09/28/18 16:36	09/29/18 07:08	1
2,6-Dinitrotoluene	2.0	U	2.0	0.39	ug/L		09/28/18 16:36	09/29/18 07:08	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		09/28/18 16:36	09/29/18 07:08	1
2-Chlorophenol	10	U	10	0.38	ug/L		09/28/18 16:36	09/29/18 07:08	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/28/18 16:36	09/29/18 07:08	1
2-Methylphenol	10	U	10	0.26	ug/L		09/28/18 16:36	09/29/18 07:08	1
2-Nitroaniline	10	U	10	0.47	ug/L		09/28/18 16:36	09/29/18 07:08	1
2-Nitrophenol	10	U *	10	0.75	ug/L		09/28/18 16:36	09/29/18 07:08	1
3 & 4 Methylphenol	10	U	10	0.24	ug/L		09/28/18 16:36	09/29/18 07:08	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		09/28/18 16:36	09/29/18 07:08	1
3-Nitroaniline	10	U	10	0.96	ug/L		09/28/18 16:36	09/29/18 07:08	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		09/28/18 16:36	09/29/18 07:08	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		09/28/18 16:36	09/29/18 07:08	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		09/28/18 16:36	09/29/18 07:08	1
4-Chloroaniline	10	U	10	1.9	ug/L		09/28/18 16:36	09/29/18 07:08	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		09/28/18 16:36	09/29/18 07:08	1
4-Methylphenol	10	U	10	0.24	ug/L		09/28/18 16:36	09/29/18 07:08	1
4-Nitroaniline	10	U	10	0.54	ug/L		09/28/18 16:36	09/29/18 07:08	1
4-Nitrophenol	20	U *	20	0.69	ug/L		09/28/18 16:36	09/29/18 07:08	1
Acenaphthene	10	U	10	1.1	ug/L		09/28/18 16:36	09/29/18 07:08	1
Acenaphthylene	10	U *	10	0.82	ug/L		09/28/18 16:36	09/29/18 07:08	1
Acetophenone	10	U	10	0.79	ug/L		09/28/18 16:36	09/29/18 07:08	1
Anthracene	10	U	10	0.63	ug/L		09/28/18 16:36	09/29/18 07:08	1
Atrazine	2.0	U *	2.0	1.3	ug/L		09/28/18 16:36	09/29/18 07:08	1
Benzaldehyde	10	U	10	0.59	ug/L		09/28/18 16:36	09/29/18 07:08	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/28/18 16:36	09/29/18 07:08	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/28/18 16:36	09/29/18 07:08	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/28/18 16:36	09/29/18 07:08	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/28/18 16:36	09/29/18 07:08	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/28/18 16:36	09/29/18 07:08	1
Bis(2-chloroethoxy)methane	10	U	10	0.24	ug/L		09/28/18 16:36	09/29/18 07:08	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.30	ug/L		09/28/18 16:36	09/29/18 07:08	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		09/28/18 16:36	09/29/18 07:08	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		09/28/18 16:36	09/29/18 07:08	1
Caprolactam	10	U *	10	0.68	ug/L		09/28/18 16:36	09/29/18 07:08	1
Carbazole	10	U	10	0.68	ug/L		09/28/18 16:36	09/29/18 07:08	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/28/18 16:36	09/29/18 07:08	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/28/18 16:36	09/29/18 07:08	1
Dibenzofuran	10	U	10	1.1	ug/L		09/28/18 16:36	09/29/18 07:08	1
Diethyl phthalate	10	U	10	0.98	ug/L		09/28/18 16:36	09/29/18 07:08	1
Dimethyl phthalate	10	U	10	0.77	ug/L		09/28/18 16:36	09/29/18 07:08	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: FB-20180927

Lab Sample ID: 460-165599-7

Date Collected: 09/27/18 14:45

Matrix: Water

Date Received: 09/27/18 20:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	10	U	10	0.84	ug/L		09/28/18 16:36	09/29/18 07:08	1
Di-n-octyl phthalate	10	U *	10	4.8	ug/L		09/28/18 16:36	09/29/18 07:08	1
Fluoranthene	10	U	10	0.84	ug/L		09/28/18 16:36	09/29/18 07:08	1
Fluorene	10	U	10	0.91	ug/L		09/28/18 16:36	09/29/18 07:08	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		09/28/18 16:36	09/29/18 07:08	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		09/28/18 16:36	09/29/18 07:08	1
Hexachlorocyclopentadiene	10	U	10	1.7	ug/L		09/28/18 16:36	09/29/18 07:08	1
Hexachloroethane	2.0	U	2.0	1.2	ug/L		09/28/18 16:36	09/29/18 07:08	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/28/18 16:36	09/29/18 07:08	1
Isophorone	10	U *	10	0.80	ug/L		09/28/18 16:36	09/29/18 07:08	1
Naphthalene	10	U	10	1.1	ug/L		09/28/18 16:36	09/29/18 07:08	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		09/28/18 16:36	09/29/18 07:08	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		09/28/18 16:36	09/29/18 07:08	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		09/28/18 16:36	09/29/18 07:08	1
Pentachlorophenol	20	U	20	1.4	ug/L		09/28/18 16:36	09/29/18 07:08	1
Phenanthrene	10	U	10	0.58	ug/L		09/28/18 16:36	09/29/18 07:08	1
Phenol	10	U *	10	0.29	ug/L		09/28/18 16:36	09/29/18 07:08	1
Pyrene	10	U	10	1.6	ug/L		09/28/18 16:36	09/29/18 07:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	107		26 - 139	09/28/18 16:36	09/29/18 07:08	1
2-Fluorobiphenyl	84		45 - 107	09/28/18 16:36	09/29/18 07:08	1
2-Fluorophenol (Surr)	48		25 - 58	09/28/18 16:36	09/29/18 07:08	1
Nitrobenzene-d5 (Surr)	107		51 - 108	09/28/18 16:36	09/29/18 07:08	1
Phenol-d5 (Surr)	31		14 - 39	09/28/18 16:36	09/29/18 07:08	1
Terphenyl-d14 (Surr)	92		40 - 148	09/28/18 16:36	09/29/18 07:08	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	40.0	U	40.0	18.8	ug/L		09/29/18 22:15	09/30/18 21:18	2
Antimony	0.67	J	2.0	0.62	ug/L		09/29/18 22:15	09/30/18 21:18	2
Arsenic	2.0	U	2.0	0.73	ug/L		09/29/18 22:15	09/30/18 21:18	2
Barium	4.0	U	4.0	1.2	ug/L		09/29/18 22:15	09/30/18 21:18	2
Beryllium	0.80	U	0.80	0.25	ug/L		09/29/18 22:15	09/30/18 21:18	2
Cadmium	2.0	U	2.0	0.81	ug/L		09/29/18 22:15	09/30/18 21:18	2
Calcium	200	U	200	67.6	ug/L		09/29/18 22:15	09/30/18 21:18	2
Chromium	4.0	U	4.0	2.3	ug/L		09/29/18 22:15	09/30/18 21:18	2
Cobalt	4.0	U	4.0	1.6	ug/L		09/29/18 22:15	09/30/18 21:18	2
Copper	4.0	U	4.0	2.0	ug/L		09/29/18 22:15	09/30/18 21:18	2
Iron	120	U	120	51.1	ug/L		09/29/18 22:15	09/30/18 21:18	2
Lead	1.2	U	1.2	0.55	ug/L		09/29/18 22:15	09/30/18 21:18	2
Magnesium	200	U	200	73.7	ug/L		09/29/18 22:15	09/30/18 21:18	2
Manganese	8.0	U	8.0	2.9	ug/L		09/29/18 22:15	09/30/18 21:18	2
Nickel	4.0	U	4.0	2.4	ug/L		09/29/18 22:15	09/30/18 21:18	2
Potassium	200	U	200	86.7	ug/L		09/29/18 22:15	09/30/18 21:18	2
Selenium	10.0	U	10.0	5.4	ug/L		09/29/18 22:15	09/30/18 21:18	2
Silver	2.0	U	2.0	0.59	ug/L		09/29/18 22:15	09/30/18 21:18	2
Sodium	200	U	200	128	ug/L		09/29/18 22:15	09/30/18 21:18	2
Thallium	0.80	U	0.80	0.16	ug/L		09/29/18 22:15	09/30/18 21:18	2
Vanadium	4.0	U	4.0	1.1	ug/L		09/29/18 22:15	09/30/18 21:18	2

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: FB-20180927

Lab Sample ID: 460-165599-7

Date Collected: 09/27/18 14:45

Matrix: Water

Date Received: 09/27/18 20:20

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	16.0	U	16.0	11.1	ug/L		09/29/18 22:15	09/30/18 21:18	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		10/02/18 12:22	10/02/18 16:40	1

Client Sample ID: Trip Blank

Lab Sample ID: 460-165599-8

Date Collected: 09/27/18 00:00

Matrix: Water

Date Received: 09/27/18 20:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/02/18 04:58	1
1,1,2,2-Tetrachloroethane	1.0	U *	1.0	0.37	ug/L			10/02/18 04:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/18 04:58	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			10/02/18 04:58	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			10/02/18 04:58	1
1,1-Dichloroethene	1.0	U	1.0	0.12	ug/L			10/02/18 04:58	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			10/02/18 04:58	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			10/02/18 04:58	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			10/02/18 04:58	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			10/02/18 04:58	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			10/02/18 04:58	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			10/02/18 04:58	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			10/02/18 04:58	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			10/02/18 04:58	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			10/02/18 04:58	1
1,4-Dichlorobenzene	1.0	U	1.0	0.76	ug/L			10/02/18 04:58	1
1,4-Dioxane	50	U	50	28	ug/L			10/02/18 04:58	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			10/02/18 04:58	1
2-Hexanone	5.0	U	5.0	2.9	ug/L			10/02/18 04:58	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.7	ug/L			10/02/18 04:58	1
Acetone	5.0	U	5.0	5.0	ug/L			10/02/18 04:58	1
Benzene	1.0	U *	1.0	0.43	ug/L			10/02/18 04:58	1
Bromoform	1.0	U	1.0	0.54	ug/L			10/02/18 04:58	1
Bromomethane	1.0	U	1.0	1.0	ug/L			10/02/18 04:58	1
Carbon disulfide	1.0	U	1.0	0.16	ug/L			10/02/18 04:58	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			10/02/18 04:58	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			10/02/18 04:58	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			10/02/18 04:58	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			10/02/18 04:58	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/18 04:58	1
Chloroform	1.0	U	1.0	0.33	ug/L			10/02/18 04:58	1
Chloromethane	1.0	U	1.0	0.14	ug/L			10/02/18 04:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			10/02/18 04:58	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/02/18 04:58	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			10/02/18 04:58	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			10/02/18 04:58	1
Dichlorodifluoromethane	1.0	U	1.0	0.12	ug/L			10/02/18 04:58	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			10/02/18 04:58	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: Trip Blank

Lab Sample ID: 460-165599-8

Date Collected: 09/27/18 00:00

Matrix: Water

Date Received: 09/27/18 20:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			10/02/18 04:58	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			10/02/18 04:58	1
Methyl acetate	5.0	U	5.0	0.31	ug/L			10/02/18 04:58	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			10/02/18 04:58	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			10/02/18 04:58	1
Methylene Chloride	0.36	J	1.0	0.32	ug/L			10/02/18 04:58	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			10/02/18 04:58	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			10/02/18 04:58	1
N-Propylbenzene	1.0	U *	1.0	0.32	ug/L			10/02/18 04:58	1
o-Xylene	1.0	U	1.0	0.36	ug/L			10/02/18 04:58	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			10/02/18 04:58	1
Styrene	1.0	U	1.0	0.42	ug/L			10/02/18 04:58	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			10/02/18 04:58	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			10/02/18 04:58	1
Toluene	1.0	U	1.0	0.38	ug/L			10/02/18 04:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/02/18 04:58	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			10/02/18 04:58	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			10/02/18 04:58	1
Trichlorofluoromethane	1.0	U	1.0	0.14	ug/L			10/02/18 04:58	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			10/02/18 04:58	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			10/02/18 04:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		74 - 132		10/02/18 04:58	1
4-Bromofluorobenzene	103		77 - 124		10/02/18 04:58	1
Dibromofluoromethane (Surr)	108		72 - 131		10/02/18 04:58	1
Toluene-d8 (Surr)	113		80 - 120		10/02/18 04:58	1

Client Sample ID: RX-5_0.5-2.5

Lab Sample ID: 460-165599-9

Date Collected: 09/27/18 15:30

Matrix: Solid

Date Received: 09/27/18 20:20

Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0011	U	0.0011	0.00025	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
1,1,2,2-Tetrachloroethane	0.0011	U	0.0011	0.00023	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0011	U	0.0011	0.00032	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
1,1,2-Trichloroethane	0.0011	U	0.0011	0.00019	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
1,1-Dichloroethane	0.0011	U	0.0011	0.00022	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
1,1-Dichloroethene	0.0011	U	0.0011	0.00024	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
1,2,3-Trichlorobenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
1,2,4-Trichlorobenzene	0.0011	U	0.0011	0.000097	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
1,2,4-Trimethylbenzene	0.0011	U	0.0011	0.000099	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
1,2-Dibromo-3-Chloropropane	0.0011	U	0.0011	0.00049	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
1,2-Dichlorobenzene	0.0011	U	0.0011	0.00015	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
1,2-Dichloroethane	0.0011	U	0.0011	0.00031	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
1,2-Dichloropropane	0.0011	U	0.0011	0.00045	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
1,3,5-Trimethylbenzene	0.0011	U	0.0011	0.00012	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
1,3-Dichlorobenzene	0.0011	U	0.0011	0.00017	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
1,4-Dichlorobenzene	0.0011	U	0.0011	0.00011	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-5_0.5-2.5

Lab Sample ID: 460-165599-9

Date Collected: 09/27/18 15:30

Matrix: Solid

Date Received: 09/27/18 20:20

Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.021	U	0.021	0.0097	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
2-Butanone (MEK)	0.0023	J	0.0053	0.0012	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
2-Hexanone	0.0053	U	0.0053	0.00082	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
4-Methyl-2-pentanone (MIBK)	0.0053	U	0.0053	0.00070	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Acetone	0.018		0.0053	0.0040	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Benzene	0.0011	U	0.0011	0.00027	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Bromoform	0.0011	U	0.0011	0.00045	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Bromomethane	0.0011	U	0.0011	0.00050	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Carbon disulfide	0.0011	U	0.0011	0.00028	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Carbon tetrachloride	0.0011	U	0.0011	0.00019	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Chlorobenzene	0.0011	U	0.0011	0.00019	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Chlorobromomethane	0.0011	U	0.0011	0.00030	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Chlorodibromomethane	0.0011	U	0.0011	0.00020	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Chloroethane	0.0011	U	0.0011	0.00055	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Chloroform	0.0011	U	0.0011	0.00034	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Chloromethane	0.0011	U	0.0011	0.00046	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
cis-1,2-Dichloroethene	0.0011	U	0.0011	0.00016	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
cis-1,3-Dichloropropene	0.0011	U	0.0011	0.00029	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Cyclohexane	0.0011	U	0.0011	0.00023	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Dichlorobromomethane	0.0011	U	0.0011	0.00027	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Dichlorodifluoromethane	0.0011	U	0.0011	0.00036	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Ethylbenzene	0.0011	U	0.0011	0.00021	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Ethylene Dibromide	0.0011	U	0.0011	0.00019	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Isopropylbenzene	0.0011	U	0.0011	0.00013	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Methyl acetate	0.0053	U	0.0053	0.0045	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Methyl tert-butyl ether	0.0011	U	0.0011	0.00013	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Methylcyclohexane	0.0011	U	0.0011	0.00017	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Methylene Chloride	0.0011	U	0.0011	0.00017	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
m-Xylene & p-Xylene	0.0011	U	0.0011	0.00018	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
n-Butylbenzene	0.0011	U	0.0011	0.00015	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
N-Propylbenzene	0.0011	U	0.0011	0.00018	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
o-Xylene	0.0011	U	0.0011	0.00010	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
sec-Butylbenzene	0.0011	U	0.0011	0.000093	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Styrene	0.0011	U	0.0011	0.00013	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
tert-Butylbenzene	0.0011	U	0.0011	0.00013	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Tetrachloroethene	0.0011	U	0.0011	0.00015	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Toluene	0.0011	U	0.0011	0.00066	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
trans-1,2-Dichloroethene	0.0011	U	0.0011	0.00026	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
trans-1,3-Dichloropropene	0.0011	U	0.0011	0.00028	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Trichloroethene	0.0011	U	0.0011	0.00015	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Trichlorofluoromethane	0.0011	U	0.0011	0.00043	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Vinyl chloride	0.0011	U	0.0011	0.00058	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1
Xylenes, Total	0.0021	U	0.0021	0.00027	mg/Kg	☼	09/28/18 13:31	09/30/18 00:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		78 - 135	09/28/18 13:31	09/30/18 00:57	1
4-Bromofluorobenzene	103		67 - 126	09/28/18 13:31	09/30/18 00:57	1
Dibromofluoromethane (Surr)	97		61 - 149	09/28/18 13:31	09/30/18 00:57	1
Toluene-d8 (Surr)	101		73 - 121	09/28/18 13:31	09/30/18 00:57	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-5_0.5-2.5

Lab Sample ID: 460-165599-9

Date Collected: 09/27/18 15:30

Matrix: Solid

Date Received: 09/27/18 20:20

Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.35	U	0.35	0.0047	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
1,2,4,5-Tetrachlorobenzene	0.35	U	0.35	0.0047	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
2,2'-oxybis[1-chloropropane]	0.35	U	0.35	0.0064	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
2,3,4,6-Tetrachlorophenol	0.35	U	0.35	0.024	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
2,4,5-Trichlorophenol	0.35	U	0.35	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.018	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
2,4-Dichlorophenol	0.14	U	0.14	0.0075	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
2,4-Dimethylphenol	0.35	U	0.35	0.016	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
2,4-Dinitrophenol	0.29	U	0.29	0.17	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
2,4-Dinitrotoluene	0.072	U	0.072	0.018	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
2,6-Dinitrotoluene	0.072	U	0.072	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
2-Chloronaphthalene	0.35	U	0.35	0.016	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
2-Chlorophenol	0.35	U	0.35	0.0050	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
2-Methylnaphthalene	0.35	U	0.35	0.0044	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
2-Methylphenol	0.35	U	0.35	0.0057	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
2-Nitroaniline	0.35	U	0.35	0.013	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
2-Nitrophenol	0.35	U	0.35	0.011	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
3 & 4 Methylphenol	0.35	U	0.35	0.0061	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
3,3'-Dichlorobenzidine	0.14	U	0.14	0.054	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
3-Nitroaniline	0.35	U	0.35	0.019	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
4,6-Dinitro-2-methylphenol	0.29	U	0.29	0.058	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
4-Bromophenyl phenyl ether	0.35	U	0.35	0.0046	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
4-Chloro-3-methylphenol	0.35	U	0.35	0.0059	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
4-Chloroaniline	0.35	U	0.35	0.025	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
4-Chlorophenyl phenyl ether	0.35	U	0.35	0.0056	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
4-Methylphenol	0.35	U	0.35	0.0061	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
4-Nitroaniline	0.35	U	0.35	0.013	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
4-Nitrophenol	0.72	U	0.72	0.058	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Acenaphthene	0.35	U	0.35	0.026	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Acenaphthylene	0.35	U	0.35	0.0037	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Acetophenone	0.35	U	0.35	0.0057	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Anthracene	0.35	U	0.35	0.0040	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Atrazine	0.14	U	0.14	0.0090	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Benzaldehyde	0.35	U	0.35	0.016	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Benzo[a]anthracene	0.034	J	0.035	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Benzo[a]pyrene	0.034	J	0.035	0.0095	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Benzo[b]fluoranthene	0.049	J	0.035	0.0092	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Benzo[g,h,i]perylene	0.044	J	0.35	0.010	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Benzo[k]fluoranthene	0.018	J	0.035	0.0070	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Bis(2-chloroethoxy)methane	0.35	U	0.35	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Bis(2-chloroethyl)ether	0.035	U *	0.035	0.0043	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Bis(2-ethylhexyl) phthalate	0.036	J	0.35	0.019	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Butyl benzyl phthalate	0.35	U	0.35	0.017	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Caprolactam	0.35	U	0.35	0.021	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Carbazole	0.35	U	0.35	0.0042	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Chrysene	0.038	J	0.35	0.0060	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Dibenz(a,h)anthracene	0.035	U	0.035	0.015	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Dibenzofuran	0.35	U	0.35	0.0050	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Diethyl phthalate	0.35	U	0.35	0.0052	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-5_0.5-2.5

Lab Sample ID: 460-165599-9

Date Collected: 09/27/18 15:30

Matrix: Solid

Date Received: 09/27/18 20:20

Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	0.35	U	0.35	0.0043	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Di-n-butyl phthalate	0.35	U	0.35	0.063	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Di-n-octyl phthalate	0.35	U	0.35	0.019	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Fluoranthene	0.035	J	0.35	0.0046	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Fluorene	0.35	U	0.35	0.0048	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Hexachlorobenzene	0.035	U	0.035	0.0052	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Hexachlorobutadiene	0.072	U	0.072	0.0076	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Hexachlorocyclopentadiene	0.35	U	0.35	0.031	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Hexachloroethane	0.035	U *	0.035	0.0055	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Indeno[1,2,3-cd]pyrene	0.028	J	0.035	0.014	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Isophorone	0.14	U	0.14	0.0094	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Naphthalene	0.35	U	0.35	0.0061	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Nitrobenzene	0.035	U *	0.035	0.0085	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
N-Nitrosodi-n-propylamine	0.035	U	0.035	0.0057	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
N-Nitrosodiphenylamine	0.35	U	0.35	0.0068	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Pentachlorophenol	0.29	U	0.29	0.073	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Phenanthrene	0.015	J	0.35	0.0063	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Phenol	0.35	U	0.35	0.0053	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1
Pyrene	0.048	J	0.35	0.0088	mg/Kg	☼	09/29/18 16:09	09/30/18 20:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	10		10 - 103	09/29/18 16:09	09/30/18 20:49	1
2-Fluorobiphenyl	54		38 - 95	09/29/18 16:09	09/30/18 20:49	1
2-Fluorophenol (Surr)	52		25 - 92	09/29/18 16:09	09/30/18 20:49	1
Nitrobenzene-d5 (Surr)	57		37 - 94	09/29/18 16:09	09/30/18 20:49	1
Phenol-d5 (Surr)	57		32 - 91	09/29/18 16:09	09/30/18 20:49	1
Terphenyl-d14 (Surr)	51		24 - 109	09/29/18 16:09	09/30/18 20:49	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5610		19.2	6.6	mg/Kg	☼	10/02/18 19:02	10/03/18 11:54	20
Antimony	0.96	U	0.96	0.28	mg/Kg	☼	10/02/18 19:02	10/03/18 11:54	20
Arsenic	3.7		0.96	0.31	mg/Kg	☼	10/02/18 19:02	10/03/18 11:54	20
Barium	60.4		1.9	0.64	mg/Kg	☼	10/02/18 19:02	10/03/18 11:54	20
Beryllium	0.26	J	0.38	0.15	mg/Kg	☼	10/02/18 19:02	10/03/18 11:54	20
Cadmium	0.66	J	0.96	0.32	mg/Kg	☼	10/02/18 19:02	10/03/18 11:54	20
Calcium	63700	B	96.1	28.5	mg/Kg	☼	10/02/18 19:02	10/03/18 11:54	20
Chromium	10.4		1.9	0.58	mg/Kg	☼	10/02/18 19:02	10/03/18 11:54	20
Cobalt	4.2		1.9	0.58	mg/Kg	☼	10/02/18 19:02	10/03/18 11:54	20
Copper	22.7		1.9	0.55	mg/Kg	☼	10/02/18 19:02	10/03/18 11:54	20
Iron	11100		57.6	20.2	mg/Kg	☼	10/02/18 19:02	10/03/18 11:54	20
Lead	52.2		0.58	0.18	mg/Kg	☼	10/02/18 19:02	10/03/18 11:54	20
Magnesium	23700		96.1	26.7	mg/Kg	☼	10/02/18 19:02	10/03/18 11:54	20
Manganese	185		3.8	1.2	mg/Kg	☼	10/02/18 19:02	10/03/18 11:54	20
Nickel	11.6		1.9	0.63	mg/Kg	☼	10/02/18 19:02	10/03/18 11:54	20
Potassium	866		96.1	34.6	mg/Kg	☼	10/02/18 19:02	10/03/18 11:54	20
Selenium	4.8	U	4.8	0.28	mg/Kg	☼	10/02/18 19:02	10/03/18 11:54	20
Silver	0.96	U	0.96	0.59	mg/Kg	☼	10/02/18 19:02	10/03/18 11:54	20
Sodium	311		96.1	30.1	mg/Kg	☼	10/02/18 19:02	10/03/18 11:54	20
Thallium	0.38	U	0.38	0.12	mg/Kg	☼	10/02/18 19:02	10/03/18 11:54	20

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-5_0.5-2.5

Date Collected: 09/27/18 15:30

Date Received: 09/27/18 20:20

Lab Sample ID: 460-165599-9

Matrix: Solid

Percent Solids: 92.9

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	21.1		1.9	0.55	mg/Kg	☼	10/02/18 19:02	10/03/18 11:54	20
Zinc	75.5		7.7	3.7	mg/Kg	☼	10/02/18 19:02	10/03/18 11:54	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.086		0.018	0.010	mg/Kg	☼	10/03/18 03:58	10/03/18 09:21	1

Client Sample ID: RX-5_5.0-7.0

Date Collected: 09/27/18 15:45

Date Received: 09/27/18 20:20

Lab Sample ID: 460-165599-10

Matrix: Solid

Percent Solids: 89.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00024	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00022	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00031	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00019	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00019	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.000096	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
1,2,4-Trimethylbenzene	0.0010	U	0.0010	0.000098	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00048	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00015	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00031	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00044	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
1,3,5-Trimethylbenzene	0.0010	U	0.0010	0.00012	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00017	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00010	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
1,4-Dioxane	0.021	U	0.021	0.0096	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
2-Butanone (MEK)	0.0052	U	0.0052	0.0012	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
2-Hexanone	0.0052	U	0.0052	0.00081	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
4-Methyl-2-pentanone (MIBK)	0.0052	U	0.0052	0.00069	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Acetone	0.0052	U	0.0052	0.0039	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Benzene	0.0010	U	0.0010	0.00027	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Bromoform	0.0010	U	0.0010	0.00044	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Bromomethane	0.0010	U	0.0010	0.00049	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Carbon disulfide	0.0010	U	0.0010	0.00028	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Carbon tetrachloride	0.0010	U	0.0010	0.00019	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Chlorobromomethane	0.0010	U	0.0010	0.00029	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Chlorodibromomethane	0.0010	U	0.0010	0.00020	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Chloroethane	0.0010	U	0.0010	0.00054	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Chloroform	0.0010	U	0.0010	0.00033	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Chloromethane	0.0010	U	0.0010	0.00045	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00016	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00028	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Cyclohexane	0.0010	U	0.0010	0.00023	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Dichlorobromomethane	0.0010	U	0.0010	0.00027	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00035	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-5_5.0-7.0

Lab Sample ID: 460-165599-10

Date Collected: 09/27/18 15:45

Matrix: Solid

Date Received: 09/27/18 20:20

Percent Solids: 89.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.0010	U	0.0010	0.00021	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Ethylene Dibromide	0.0010	U	0.0010	0.00019	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Isopropylbenzene	0.0010	U	0.0010	0.00013	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Methyl acetate	0.0052	U	0.0052	0.0045	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00013	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Methylcyclohexane	0.0010	U	0.0010	0.00017	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Methylene Chloride	0.0010	U	0.0010	0.00017	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00018	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
n-Butylbenzene	0.0010	U	0.0010	0.00015	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
o-Xylene	0.0010	U	0.0010	0.000099	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
sec-Butylbenzene	0.0010	U	0.0010	0.000092	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Styrene	0.0010	U	0.0010	0.00013	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
tert-Butylbenzene	0.0010	U	0.0010	0.00013	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Tetrachloroethene	0.0010	U	0.0010	0.00015	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Toluene	0.0010	U	0.0010	0.00065	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00026	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00028	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Trichloroethene	0.0010	B	0.0010	0.00015	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00042	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Vinyl chloride	0.0010	U	0.0010	0.00057	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1
Xylenes, Total	0.0021	U	0.0021	0.00026	mg/Kg	☼	09/28/18 13:32	10/09/18 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		78 - 135	09/28/18 13:32	10/09/18 12:25	1
4-Bromofluorobenzene	95		67 - 126	09/28/18 13:32	10/09/18 12:25	1
Dibromofluoromethane (Surr)	108		61 - 149	09/28/18 13:32	10/09/18 12:25	1
Toluene-d8 (Surr)	98		73 - 121	09/28/18 13:32	10/09/18 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.37	U	0.37	0.0049	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
1,2,4,5-Tetrachlorobenzene	0.37	U	0.37	0.0048	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
2,2'-oxybis[1-chloropropane]	0.37	U	0.37	0.0067	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
2,3,4,6-Tetrachlorophenol	0.37	U	0.37	0.025	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
2,4,5-Trichlorophenol	0.37	U	0.37	0.012	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.019	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
2,4-Dichlorophenol	0.15	U	0.15	0.0078	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
2,4-Dimethylphenol	0.37	U	0.37	0.016	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
2,4-Dinitrophenol	0.30	U	0.30	0.18	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
2,4-Dinitrotoluene	0.075	U	0.075	0.019	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
2,6-Dinitrotoluene	0.075	U	0.075	0.012	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
2-Chloronaphthalene	0.37	U	0.37	0.017	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
2-Chlorophenol	0.37	U	0.37	0.0052	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
2-Methylnaphthalene	0.37	U	0.37	0.0046	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
2-Methylphenol	0.37	U	0.37	0.0059	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
2-Nitroaniline	0.37	U	0.37	0.014	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
2-Nitrophenol	0.37	U	0.37	0.012	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
3 & 4 Methylphenol	0.37	U	0.37	0.0063	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.056	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-5_5.0-7.0

Lab Sample ID: 460-165599-10

Date Collected: 09/27/18 15:45

Matrix: Solid

Date Received: 09/27/18 20:20

Percent Solids: 89.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	0.37	U	0.37	0.020	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
4,6-Dinitro-2-methylphenol	0.30	U	0.30	0.060	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
4-Bromophenyl phenyl ether	0.37	U	0.37	0.0048	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
4-Chloro-3-methylphenol	0.37	U	0.37	0.0061	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
4-Chloroaniline	0.37	U	0.37	0.026	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
4-Chlorophenyl phenyl ether	0.37	U	0.37	0.0058	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
4-Methylphenol	0.37	U	0.37	0.0063	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
4-Nitroaniline	0.37	U	0.37	0.014	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
4-Nitrophenol	0.75	U	0.75	0.060	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Acenaphthene	0.37	U	0.37	0.027	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Acenaphthylene	0.37	U	0.37	0.0038	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Acetophenone	0.37	U	0.37	0.0059	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Anthracene	0.37	U	0.37	0.0041	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Atrazine	0.15	U	0.15	0.0093	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Benzaldehyde	0.37	U	0.37	0.016	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Benzo[a]anthracene	0.037	U	0.037	0.013	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Benzo[a]pyrene	0.037	U	0.037	0.0098	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Benzo[b]fluoranthene	0.037	U	0.037	0.0095	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Benzo[g,h,i]perylene	0.37	U	0.37	0.011	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Benzo[k]fluoranthene	0.037	U	0.037	0.0072	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Bis(2-chloroethoxy)methane	0.37	U	0.37	0.013	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Bis(2-chloroethyl)ether	0.037	U	0.037	0.0044	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Bis(2-ethylhexyl) phthalate	0.37	U	0.37	0.019	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Butyl benzyl phthalate	0.37	U	0.37	0.017	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Caprolactam	0.37	U	0.37	0.022	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Carbazole	0.37	U	0.37	0.0043	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Chrysene	0.37	U	0.37	0.0062	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Dibenz(a,h)anthracene	0.037	U	0.037	0.016	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Dibenzofuran	0.37	U	0.37	0.0052	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Diethyl phthalate	0.37	U	0.37	0.0053	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Dimethyl phthalate	0.37	U	0.37	0.0044	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Di-n-butyl phthalate	0.37	U	0.37	0.065	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Di-n-octyl phthalate	0.37	U	0.37	0.019	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Fluoranthene	0.37	U	0.37	0.0048	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Fluorene	0.37	U	0.37	0.0050	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Hexachlorobenzene	0.037	U	0.037	0.0054	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Hexachlorobutadiene	0.075	U	0.075	0.0078	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Hexachlorocyclopentadiene	0.37	U	0.37	0.032	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Hexachloroethane	0.037	U	0.037	0.0057	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Indeno[1,2,3-cd]pyrene	0.037	U	0.037	0.014	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Isophorone	0.15	U	0.15	0.0097	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Naphthalene	0.37	U	0.37	0.0064	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Nitrobenzene	0.037	U	0.037	0.0088	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
N-Nitrosodi-n-propylamine	0.037	U	0.037	0.0059	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
N-Nitrosodiphenylamine	0.37	U	0.37	0.0070	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Pentachlorophenol	0.30	U	0.30	0.075	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Phenanthrene	0.37	U	0.37	0.0065	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Phenol	0.37	U	0.37	0.0055	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1
Pyrene	0.37	U	0.37	0.0092	mg/Kg	☼	10/06/18 09:18	10/07/18 11:27	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165599-1

Client Sample ID: RX-5_5.0-7.0

Date Collected: 09/27/18 15:45

Date Received: 09/27/18 20:20

Lab Sample ID: 460-165599-10

Matrix: Solid

Percent Solids: 89.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		10 - 103	10/06/18 09:18	10/07/18 11:27	1
2-Fluorobiphenyl	64		38 - 95	10/06/18 09:18	10/07/18 11:27	1
2-Fluorophenol (Surr)	64		25 - 92	10/06/18 09:18	10/07/18 11:27	1
Nitrobenzene-d5 (Surr)	61		37 - 94	10/06/18 09:18	10/07/18 11:27	1
Phenol-d5 (Surr)	58		32 - 91	10/06/18 09:18	10/07/18 11:27	1
Terphenyl-d14 (Surr)	50		24 - 109	10/06/18 09:18	10/07/18 11:27	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8240		19.7	6.8	mg/Kg	☼	10/09/18 16:55	10/09/18 23:33	20
Antimony	0.99	U	0.99	0.29	mg/Kg	☼	10/09/18 16:55	10/09/18 23:33	20
Arsenic	2.0		0.99	0.32	mg/Kg	☼	10/09/18 16:55	10/09/18 23:33	20
Barium	29.8		2.0	0.65	mg/Kg	☼	10/09/18 16:55	10/09/18 23:33	20
Beryllium	0.33	J	0.39	0.16	mg/Kg	☼	10/09/18 16:55	10/09/18 23:33	20
Cadmium	0.99	U	0.99	0.33	mg/Kg	☼	10/09/18 16:55	10/09/18 23:33	20
Calcium	39000		98.6	29.3	mg/Kg	☼	10/09/18 16:55	10/09/18 23:33	20
Chromium	11.1		2.0	0.59	mg/Kg	☼	10/09/18 16:55	10/09/18 23:33	20
Cobalt	5.0		2.0	0.59	mg/Kg	☼	10/09/18 16:55	10/09/18 23:33	20
Copper	10.8		2.0	0.56	mg/Kg	☼	10/09/18 16:55	10/09/18 23:33	20
Iron	11500		59.2	20.7	mg/Kg	☼	10/09/18 16:55	10/09/18 23:33	20
Lead	4.8		0.59	0.19	mg/Kg	☼	10/09/18 16:55	10/09/18 23:33	20
Magnesium	27800		98.6	27.4	mg/Kg	☼	10/09/18 16:55	10/09/18 23:33	20
Manganese	315		3.9	1.2	mg/Kg	☼	10/09/18 16:55	10/09/18 23:33	20
Nickel	10.9		2.0	0.64	mg/Kg	☼	10/09/18 16:55	10/09/18 23:33	20
Potassium	913		98.6	35.5	mg/Kg	☼	10/09/18 16:55	10/09/18 23:33	20
Selenium	4.9	U	4.9	0.29	mg/Kg	☼	10/09/18 16:55	10/09/18 23:33	20
Silver	0.99	U	0.99	0.61	mg/Kg	☼	10/09/18 16:55	10/09/18 23:33	20
Sodium	1050		98.6	30.9	mg/Kg	☼	10/09/18 16:55	10/09/18 23:33	20
Thallium	0.39	U	0.39	0.12	mg/Kg	☼	10/09/18 16:55	10/09/18 23:33	20
Vanadium	14.3		2.0	0.56	mg/Kg	☼	10/09/18 16:55	10/09/18 23:33	20
Zinc	33.9		7.9	3.8	mg/Kg	☼	10/09/18 16:55	10/09/18 23:33	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	U	0.019	0.011	mg/Kg	☼	10/11/18 04:35	10/11/18 10:23	1

ANALYTICAL REPORT

Job Number: 460-165685-1

Job Description: Taconic Inwood

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, NY 11749
Attention: Ms. Jessica Taylor

Melissa Haas

Approved for release.
Melissa Haas
Project Manager I
11/16/2018 11:35 AM

Melissa Haas, Project Manager I
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11/16/2018
Revision: 1

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TestAmerica Laboratories, Inc.

TestAmerica Edison 777 New Durham Road, Edison, NJ 08817
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Job Number: 460-165685-1

Job Description: Taconic Inwood

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

A handwritten signature in black ink that reads "Melissa Haas". The signature is written in a cursive, flowing style. Below the signature is a solid black horizontal line.

Approved for release.
Melissa Haas
Project Manager I
11/16/2018 11:35 AM

Melissa Haas

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CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: Taconic Inwood

Report Number: 460-165685-1

Revised Report #1

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

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

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

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

REVISED REPORT #1

The following report required a revision: 460-165685-1. Details are as follows: 460-165685-1. The client requested the addition of NY Part 375 compounds for VOCs, SVOCs.

RECEIPT

The samples were received on 9/28/2018 8:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.8° C and 3.0° C.

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

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples RX-6_0.5-2.5 (460-165685-1), RX-6_9.0-11.0 (460-165685-2), RX-6_14.0-16.0 (460-165685-3), RX-4_0.5-2.5 (460-165685-7), RX-4_9.5-11.5 (460-165685-8) and RX-7_0.5-2.5 (460-165685-9) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260C. The samples were prepared on 09/29/2018 and analyzed on 10/01/2018, 10/02/2018 and 10/04/2018.

The continuing calibration verification (CCV) analyzed in batch 460-556560 was outside the method criteria for the following analytes: Chloromethane and Dichlorodifluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-557283 was outside the method criteria for the following analytes: Trichlorofluoromethane and Dichlorodifluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-557283 recovered outside control limits for the following analytes: Trichlorofluoromethane and 1,2-Dichloroethane.

Methylene Chloride and Trichloroethene were detected in method blank LB3 460-556205/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Refer to the QC report for details.

The following sample was diluted due to the abundance of non-target analytes: RX-4_0.5-2.5 (460-165685-7). Elevated reporting limits (RLs) are provided.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples RX-6 (460-165685-4), FB-20180928 (460-165685-5), RX-4 (460-165685-6) and Dup-20180928 (460-165685-10) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 10/03/2018.

No difficulties were encountered during the volatiles analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples RX-6 (460-165685-4), FB-20180928 (460-165685-5), RX-4 (460-165685-6) and Dup-20180928 (460-165685-10) were analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 09/29/2018 and analyzed on 09/30/2018.

The continuing calibration verification (CCV) analyzed in batch 460-556277 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane]. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-556150 and analytical batch 460-556277 recovered outside control limits for the following analyte: 4-Nitrophenol. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 460-556150 and analytical batch 460-556277 recovered outside control limits for the following analytes: Hexachlorobutadiene and Hexachlorocyclopentadiene.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples RX-6_0.5-2.5 (460-165685-1), RX-6_9.0-11.0 (460-165685-2), RX-6_14.0-16.0 (460-165685-3), RX-4_0.5-2.5 (460-165685-7), RX-4_9.5-11.5 (460-165685-8) and RX-7_0.5-2.5 (460-165685-9) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 09/29/2018 and analyzed on 09/30/2018, 10/01/2018 and 10/02/2018.

The continuing calibration verification (CCV) analyzed in batch 460-556257 was outside the method criteria for the following analyte(s): 4-Nitrophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for five analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 460-556147 had three analytes (Bis(2-chloroethyl)ether, Hexachloroethane and Nitrobenzene) outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

The following laboratory control sample (LCS) associated with batch 460-556147 contained one acid/base surrogate outside acceptance limits:(LCS 460-556147/3-A). The laboratory's SOP allows one acid and/or one base surrogate to be outside acceptance limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

The continuing calibration verification (CCV) analyzed in batch 460-556376 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane]. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) associated with batch 460-556376 recovered above the upper control limit for Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-556674 recovered above the upper control limit for Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-556674 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane]. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to

be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Several analytes failed the recovery criteria low for the Matrix Spike/Matrix Spike Duplicate (MS/MSD) of sample 460-165599-3 in batch 460-556257.

Refer to the QC report for details.

Sample RX-4_0.5-2.5 (460-165685-7)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

METALS

Samples RX-6_0.5-2.5 (460-165685-1), RX-6_9.0-11.0 (460-165685-2), RX-4_0.5-2.5 (460-165685-7), RX-4_9.5-11.5 (460-165685-8) and RX-7_0.5-2.5 (460-165685-9) were analyzed for Metals in accordance with EPA SW-846 Method 6020A. The samples were prepared on 10/03/2018 and analyzed on 10/04/2018.

Several analytes failed the recovery criteria low for the MS of sample RX-4_0.5-2.5MS (460-165685-7) in batch 460-557397. Barium, Calcium, Iron and Lead failed the recovery criteria high.

Several analytes failed the recovery criteria low for the MS of sample RX-7_0.5-2.5MS (460-165685-9) in batch 460-557393. Lead, Nickel and Potassium failed the recovery criteria high.

Antimony, Copper, Lead, Nickel and Zinc exceeded the RPD limit for the duplicate of sample RX-4_0.5-2.5DU (460-165685-7).

Beryllium, Cadmium and Zinc exceeded the RPD limit for the duplicate of sample RX-7_0.5-2.5DU (460-165685-9).

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

Refer to the QC report for details.

Sample RX-4_0.5-2.5 (460-165685-7)[500X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

METALS

Samples RX-6 (460-165685-4), FB-20180928 (460-165685-5), RX-4 (460-165685-6) and Dup-20180928 (460-165685-10) were analyzed for Metals in accordance with 6020B. The samples were prepared on 10/03/2018 and analyzed on 10/04/2018.

Sodium failed the recovery criteria high for the MS of sample 460-165740-4 in batch 460-557397.

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

Refer to the QC report for details.

Samples RX-6 (460-165685-4)[20X], RX-4 (460-165685-6)[20X] and Dup-20180928 (460-165685-10)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples RX-6 (460-165685-4), FB-20180928 (460-165685-5), RX-4 (460-165685-6) and Dup-20180928 (460-165685-10) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 10/04/2018.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples RX-6_0.5-2.5 (460-165685-1), RX-6_9.0-11.0 (460-165685-2), RX-4_0.5-2.5 (460-165685-7), RX-4_9.5-11.5 (460-165685-8) and RX-7_0.5-2.5 (460-165685-9) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were

prepared and analyzed on 10/03/2018.

Mercury failed the recovery criteria high for the MS of sample 460-165358-1 in batch 460-557053.

Mercury exceeded the RPD limit for the duplicate of sample 460-165358-1.

Refer to the QC report for details.

No other difficulties were encountered during the Hg analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples RX-6_0.5-2.5 (460-165685-1), RX-6_9.0-11.0 (460-165685-2), RX-6_14.0-16.0 (460-165685-3), RX-4_0.5-2.5 (460-165685-7), RX-4_9.5-11.5 (460-165685-8) and RX-7_0.5-2.5 (460-165685-9) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 10/03/2018.

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

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-165685-1	RX-6_0.5-2.5	Solid	09/28/18 09:15	09/28/18 20:00
460-165685-2	RX-6_9.0-11.0	Solid	09/28/18 09:30	09/28/18 20:00
460-165685-3	RX-6_14.0-16.0	Solid	09/28/18 09:45	09/28/18 20:00
460-165685-4	RX-6	Water	09/28/18 09:00	09/28/18 20:00
460-165685-5	FB-20180928	Water	09/28/18 10:00	09/28/18 20:00
460-165685-6	RX-4	Water	09/28/18 14:00	09/28/18 20:00
460-165685-7	RX-4_0.5-2.5	Solid	09/28/18 14:15	09/28/18 20:00
460-165685-8	RX-4_9.5-11.5	Solid	09/28/18 14:30	09/28/18 20:00
460-165685-9	RX-7_0.5-2.5	Solid	09/28/18 14:45	09/28/18 20:00
460-165685-10	Dup-20180928	Water	09/28/18 00:00	09/28/18 20:00

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-6_0.5-2.5

Lab Sample ID: 460-165685-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methylene Chloride	0.00025	J B	0.0013	0.00022	mg/Kg	1	☼		8260C	Total/NA
Trichloroethene	0.00040	J B	0.0013	0.00019	mg/Kg	1	☼		8260C	Total/NA
Acenaphthylene	0.0089	J	0.46	0.0047	mg/Kg	1	☼		8270D	Total/NA
Anthracene	0.066	J	0.46	0.0051	mg/Kg	1	☼		8270D	Total/NA
Benzo[a]anthracene	0.24		0.046	0.016	mg/Kg	1	☼		8270D	Total/NA
Benzo[a]pyrene	0.22		0.046	0.012	mg/Kg	1	☼		8270D	Total/NA
Benzo[b]fluoranthene	0.29		0.046	0.012	mg/Kg	1	☼		8270D	Total/NA
Benzo[g,h,i]perylene	0.15	J	0.46	0.013	mg/Kg	1	☼		8270D	Total/NA
Benzo[k]fluoranthene	0.10		0.046	0.0090	mg/Kg	1	☼		8270D	Total/NA
Carbazole	0.017	J	0.46	0.0054	mg/Kg	1	☼		8270D	Total/NA
Chrysene	0.25	J	0.46	0.0077	mg/Kg	1	☼		8270D	Total/NA
Dibenz(a,h)anthracene	0.041	J	0.046	0.020	mg/Kg	1	☼		8270D	Total/NA
Fluoranthene	0.46		0.46	0.0059	mg/Kg	1	☼		8270D	Total/NA
Fluorene	0.016	J	0.46	0.0062	mg/Kg	1	☼		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.16		0.046	0.018	mg/Kg	1	☼		8270D	Total/NA
Phenanthrene	0.30	J	0.46	0.0080	mg/Kg	1	☼		8270D	Total/NA
Pyrene	0.48		0.46	0.011	mg/Kg	1	☼		8270D	Total/NA
Aluminum	7270		23.5	8.0	mg/Kg	20	☼		6020B	Total/NA
Antimony	0.35	J	1.2	0.34	mg/Kg	20	☼		6020B	Total/NA
Arsenic	3.8		1.2	0.38	mg/Kg	20	☼		6020B	Total/NA
Barium	105		2.3	0.78	mg/Kg	20	☼		6020B	Total/NA
Beryllium	0.29	J	0.47	0.19	mg/Kg	20	☼		6020B	Total/NA
Cadmium	1.4		1.2	0.39	mg/Kg	20	☼		6020B	Total/NA
Calcium	14900		117	34.9	mg/Kg	20	☼		6020B	Total/NA
Chromium	15.3		2.3	0.70	mg/Kg	20	☼		6020B	Total/NA
Cobalt	4.9		2.3	0.71	mg/Kg	20	☼		6020B	Total/NA
Copper	72.5		2.3	0.67	mg/Kg	20	☼		6020B	Total/NA
Iron	12200		70.4	24.6	mg/Kg	20	☼		6020B	Total/NA
Lead	345		0.70	0.22	mg/Kg	20	☼		6020B	Total/NA
Magnesium	10400		117	32.6	mg/Kg	20	☼		6020B	Total/NA
Manganese	221		4.7	1.4	mg/Kg	20	☼		6020B	Total/NA
Nickel	13.0		2.3	0.76	mg/Kg	20	☼		6020B	Total/NA
Potassium	1590		117	42.2	mg/Kg	20	☼		6020B	Total/NA
Silver	1.8		1.2	0.73	mg/Kg	20	☼		6020B	Total/NA
Sodium	367		117	36.7	mg/Kg	20	☼		6020B	Total/NA
Vanadium	30.8		2.3	0.67	mg/Kg	20	☼		6020B	Total/NA
Zinc	298		9.4	4.6	mg/Kg	20	☼		6020B	Total/NA
Mercury	0.056		0.021	0.013	mg/Kg	1	☼		7471B	Total/NA

Client Sample ID: RX-6_9.0-11.0

Lab Sample ID: 460-165685-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.014		0.0048	0.0037	mg/Kg	1	☼		8260C	Total/NA
Carbon disulfide	0.00035	J	0.00096	0.00026	mg/Kg	1	☼		8260C	Total/NA
Methylene Chloride	0.00021	J B	0.00096	0.00016	mg/Kg	1	☼		8260C	Total/NA
Anthracene	0.030	J	0.38	0.0043	mg/Kg	1	☼		8270D	Total/NA
Benzo[a]anthracene	0.080		0.038	0.013	mg/Kg	1	☼		8270D	Total/NA
Benzo[a]pyrene	0.067		0.038	0.010	mg/Kg	1	☼		8270D	Total/NA
Benzo[b]fluoranthene	0.087		0.038	0.0099	mg/Kg	1	☼		8270D	Total/NA
Benzo[g,h,i]perylene	0.044	J	0.38	0.011	mg/Kg	1	☼		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-6_9.0-11.0 (Continued)

Lab Sample ID: 460-165685-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[k]fluoranthene	0.031	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA	
Carbazole	0.013	J	0.38	0.0045	mg/Kg	1	☼	8270D	Total/NA	
Chrysene	0.071	J	0.38	0.0065	mg/Kg	1	☼	8270D	Total/NA	
Fluoranthene	0.15	J	0.38	0.0050	mg/Kg	1	☼	8270D	Total/NA	
Fluorene	0.013	J	0.38	0.0052	mg/Kg	1	☼	8270D	Total/NA	
Indeno[1,2,3-cd]pyrene	0.046		0.038	0.015	mg/Kg	1	☼	8270D	Total/NA	
Phenanthrene	0.12	J	0.38	0.0067	mg/Kg	1	☼	8270D	Total/NA	
Pyrene	0.16	J	0.38	0.0095	mg/Kg	1	☼	8270D	Total/NA	
Aluminum	8270		21.5	7.4	mg/Kg	20	☼	6020B	Total/NA	
Arsenic	1.3		1.1	0.34	mg/Kg	20	☼	6020B	Total/NA	
Barium	31.6		2.1	0.71	mg/Kg	20	☼	6020B	Total/NA	
Beryllium	0.37	J	0.43	0.17	mg/Kg	20	☼	6020B	Total/NA	
Calcium	39400		107	31.9	mg/Kg	20	☼	6020B	Total/NA	
Chromium	13.5		2.1	0.64	mg/Kg	20	☼	6020B	Total/NA	
Cobalt	5.6		2.1	0.65	mg/Kg	20	☼	6020B	Total/NA	
Copper	12.7		2.1	0.62	mg/Kg	20	☼	6020B	Total/NA	
Iron	13000		64.4	22.5	mg/Kg	20	☼	6020B	Total/NA	
Lead	8.0		0.64	0.20	mg/Kg	20	☼	6020B	Total/NA	
Magnesium	24700		107	29.9	mg/Kg	20	☼	6020B	Total/NA	
Manganese	185		4.3	1.3	mg/Kg	20	☼	6020B	Total/NA	
Nickel	13.1		2.1	0.70	mg/Kg	20	☼	6020B	Total/NA	
Potassium	2490		107	38.7	mg/Kg	20	☼	6020B	Total/NA	
Sodium	432		107	33.6	mg/Kg	20	☼	6020B	Total/NA	
Vanadium	15.7		2.1	0.61	mg/Kg	20	☼	6020B	Total/NA	
Zinc	35.3		8.6	4.2	mg/Kg	20	☼	6020B	Total/NA	

Client Sample ID: RX-6_14.0-16.0

Lab Sample ID: 460-165685-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0035	J	0.0062	0.0014	mg/Kg	1	☼		8260C	Total/NA
Acetone	0.012		0.0062	0.0047	mg/Kg	1	☼		8260C	Total/NA
Trichloroethene	0.00026	J B	0.0012	0.00018	mg/Kg	1	☼		8260C	Total/NA

Client Sample ID: RX-6

Lab Sample ID: 460-165685-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	470		400	188	ug/L	20			6020B	Total/NA
Antimony	0.91	J	2.0	0.62	ug/L	2			6020B	Total/NA
Barium	536		4.0	1.2	ug/L	2			6020B	Total/NA
Calcium	185000		200	67.6	ug/L	2			6020B	Total/NA
Copper	3.3	J	4.0	2.0	ug/L	2			6020B	Total/NA
Iron	3570		120	51.1	ug/L	2			6020B	Total/NA
Lead	9.7		1.2	0.55	ug/L	2			6020B	Total/NA
Magnesium	137000		2000	737	ug/L	20			6020B	Total/NA
Manganese	645		8.0	2.9	ug/L	2			6020B	Total/NA
Nickel	3.0	J	4.0	2.4	ug/L	2			6020B	Total/NA
Potassium	52300		200	86.7	ug/L	2			6020B	Total/NA
Sodium	1380000		2000	1280	ug/L	20			6020B	Total/NA
Vanadium	2.6	J	4.0	1.1	ug/L	2			6020B	Total/NA
Zinc	16.8		16.0	11.1	ug/L	2			6020B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: FB-20180928

Lab Sample ID: 460-165685-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	22.0	J	40.0	18.8	ug/L	2			6020B	Total/NA
Calcium	217		200	67.6	ug/L	2			6020B	Total/NA
Sodium	673		200	128	ug/L	2			6020B	Total/NA

Client Sample ID: RX-4

Lab Sample ID: 460-165685-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	12		5.0	5.0	ug/L	1			8260C	Total/NA
3 & 4 Methylphenol	4.1	J	10	0.24	ug/L	1			8270D	Total/NA
4-Methylphenol	4.1	J	10	0.24	ug/L	1			8270D	Total/NA
Anthracene	2.8	J	10	0.63	ug/L	1			8270D	Total/NA
Benzo[a]anthracene	6.7		1.0	0.59	ug/L	1			8270D	Total/NA
Benzo[a]pyrene	6.2		1.0	0.41	ug/L	1			8270D	Total/NA
Benzo[b]fluoranthene	8.0		2.0	1.1	ug/L	1			8270D	Total/NA
Benzo[g,h,i]perylene	3.5	J	10	1.4	ug/L	1			8270D	Total/NA
Benzo[k]fluoranthene	3.1		1.0	0.67	ug/L	1			8270D	Total/NA
Carbazole	5.0	J	10	0.68	ug/L	1			8270D	Total/NA
Chrysene	6.3		2.0	0.91	ug/L	1			8270D	Total/NA
Dibenz(a,h)anthracene	0.74	J	1.0	0.72	ug/L	1			8270D	Total/NA
Fluoranthene	13		10	0.84	ug/L	1			8270D	Total/NA
Fluorene	1.3	J	10	0.91	ug/L	1			8270D	Total/NA
Indeno[1,2,3-cd]pyrene	3.7		2.0	1.3	ug/L	1			8270D	Total/NA
Naphthalene	3.4	J	10	1.1	ug/L	1			8270D	Total/NA
Phenanthrene	9.9	J	10	0.58	ug/L	1			8270D	Total/NA
Phenol	2.3	J	10	0.29	ug/L	1			8270D	Total/NA
Pyrene	13		10	1.6	ug/L	1			8270D	Total/NA
Aluminum	972		400	188	ug/L	20			6020B	Total/NA
Antimony	3.8		2.0	0.62	ug/L	2			6020B	Total/NA
Arsenic	3.5		2.0	0.73	ug/L	2			6020B	Total/NA
Barium	240		4.0	1.2	ug/L	2			6020B	Total/NA
Calcium	122000		200	67.6	ug/L	2			6020B	Total/NA
Chromium	2.6	J	4.0	2.3	ug/L	2			6020B	Total/NA
Cobalt	2.2	J	4.0	1.6	ug/L	2			6020B	Total/NA
Copper	7.1		4.0	2.0	ug/L	2			6020B	Total/NA
Iron	1600		120	51.1	ug/L	2			6020B	Total/NA
Lead	67.2		1.2	0.55	ug/L	2			6020B	Total/NA
Magnesium	40300		2000	737	ug/L	20			6020B	Total/NA
Manganese	679		8.0	2.9	ug/L	2			6020B	Total/NA
Nickel	7.1		4.0	2.4	ug/L	2			6020B	Total/NA
Potassium	74900		200	86.7	ug/L	2			6020B	Total/NA
Sodium	1290000		2000	1280	ug/L	20			6020B	Total/NA
Vanadium	10.1		4.0	1.1	ug/L	2			6020B	Total/NA
Zinc	78.5		16.0	11.1	ug/L	2			6020B	Total/NA

Client Sample ID: RX-4_0.5-2.5

Lab Sample ID: 460-165685-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.33		0.11	0.025	mg/Kg	50		☼	8260C	Total/NA
1,3,5-Trimethylbenzene	0.13		0.11	0.027	mg/Kg	50		☼	8260C	Total/NA
Benzene	0.23		0.11	0.021	mg/Kg	50		☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-4_0.5-2.5 (Continued)

Lab Sample ID: 460-165685-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.039	J	0.11	0.028	mg/Kg	50	☼	8260C	Total/NA	
Cyclohexane	0.093	J	0.11	0.028	mg/Kg	50	☼	8260C	Total/NA	
Ethylbenzene	0.38		0.11	0.032	mg/Kg	50	☼	8260C	Total/NA	
Isopropylbenzene	0.067	J	0.11	0.035	mg/Kg	50	☼	8260C	Total/NA	
Methylcyclohexane	0.85		0.11	0.024	mg/Kg	50	☼	8260C	Total/NA	
m-Xylene & p-Xylene	0.61		0.11	0.030	mg/Kg	50	☼	8260C	Total/NA	
n-Butylbenzene	0.23		0.11	0.029	mg/Kg	50	☼	8260C	Total/NA	
N-Propylbenzene	0.22		0.11	0.031	mg/Kg	50	☼	8260C	Total/NA	
o-Xylene	0.14		0.11	0.035	mg/Kg	50	☼	8260C	Total/NA	
sec-Butylbenzene	0.12		0.11	0.033	mg/Kg	50	☼	8260C	Total/NA	
Toluene	0.36		0.11	0.027	mg/Kg	50	☼	8260C	Total/NA	
Xylenes, Total	0.75		0.22	0.030	mg/Kg	50	☼	8260C	Total/NA	
1,1'-Biphenyl	0.064	J	0.74	0.0098	mg/Kg	2	☼	8270D	Total/NA	
2-Methylnaphthalene	1.3		0.74	0.0093	mg/Kg	2	☼	8270D	Total/NA	
3 & 4 Methylphenol	0.033	J	0.74	0.013	mg/Kg	2	☼	8270D	Total/NA	
4-Methylphenol	0.033	J	0.74	0.013	mg/Kg	2	☼	8270D	Total/NA	
Acenaphthene	0.14	J	0.74	0.054	mg/Kg	2	☼	8270D	Total/NA	
Acenaphthylene	0.083	J	0.74	0.0077	mg/Kg	2	☼	8270D	Total/NA	
Anthracene	0.20	J	0.74	0.0083	mg/Kg	2	☼	8270D	Total/NA	
Benzo[a]anthracene	0.46		0.074	0.026	mg/Kg	2	☼	8270D	Total/NA	
Benzo[a]pyrene	0.47		0.074	0.020	mg/Kg	2	☼	8270D	Total/NA	
Benzo[b]fluoranthene	0.83		0.074	0.019	mg/Kg	2	☼	8270D	Total/NA	
Benzo[g,h,i]perylene	0.28	J	0.74	0.022	mg/Kg	2	☼	8270D	Total/NA	
Benzo[k]fluoranthene	0.26		0.074	0.015	mg/Kg	2	☼	8270D	Total/NA	
Bis(2-ethylhexyl) phthalate	1.2		0.74	0.039	mg/Kg	2	☼	8270D	Total/NA	
Butyl benzyl phthalate	0.12	J	0.74	0.035	mg/Kg	2	☼	8270D	Total/NA	
Carbazole	0.084	J	0.74	0.0087	mg/Kg	2	☼	8270D	Total/NA	
Chrysene	0.53	J	0.74	0.013	mg/Kg	2	☼	8270D	Total/NA	
Dibenz(a,h)anthracene	0.070	J	0.074	0.032	mg/Kg	2	☼	8270D	Total/NA	
Dibenzofuran	0.13	J	0.74	0.010	mg/Kg	2	☼	8270D	Total/NA	
Diethyl phthalate	0.036	J	0.74	0.011	mg/Kg	2	☼	8270D	Total/NA	
Di-n-butyl phthalate	0.31	J	0.74	0.13	mg/Kg	2	☼	8270D	Total/NA	
Fluoranthene	0.94		0.74	0.0096	mg/Kg	2	☼	8270D	Total/NA	
Fluorene	0.25	J	0.74	0.010	mg/Kg	2	☼	8270D	Total/NA	
Indeno[1,2,3-cd]pyrene	0.28		0.074	0.029	mg/Kg	2	☼	8270D	Total/NA	
Naphthalene	0.71	J	0.74	0.013	mg/Kg	2	☼	8270D	Total/NA	
Phenanthrene	1.0		0.74	0.013	mg/Kg	2	☼	8270D	Total/NA	
Pyrene	1.3		0.74	0.018	mg/Kg	2	☼	8270D	Total/NA	
Aluminum	9650		22.2	7.6	mg/Kg	20	☼	6020B	Total/NA	
Antimony	8.1		1.1	0.33	mg/Kg	20	☼	6020B	Total/NA	
Arsenic	13.1		1.1	0.36	mg/Kg	20	☼	6020B	Total/NA	
Barium	967		2.2	0.74	mg/Kg	20	☼	6020B	Total/NA	
Beryllium	0.29	J	0.44	0.18	mg/Kg	20	☼	6020B	Total/NA	
Cadmium	21.0		1.1	0.37	mg/Kg	20	☼	6020B	Total/NA	
Calcium	15400		111	33.0	mg/Kg	20	☼	6020B	Total/NA	
Chromium	42.8		2.2	0.67	mg/Kg	20	☼	6020B	Total/NA	
Cobalt	10.4		2.2	0.67	mg/Kg	20	☼	6020B	Total/NA	
Copper	520		2.2	0.64	mg/Kg	20	☼	6020B	Total/NA	
Iron	41100		66.7	23.4	mg/Kg	20	☼	6020B	Total/NA	
Lead	1790		0.67	0.21	mg/Kg	20	☼	6020B	Total/NA	

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-4_0.5-2.5 (Continued)

Lab Sample ID: 460-165685-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	9160		111	30.9	mg/Kg	20	☼	6020B	Total/NA
Manganese	411		4.4	1.4	mg/Kg	20	☼	6020B	Total/NA
Nickel	164		2.2	0.72	mg/Kg	20	☼	6020B	Total/NA
Potassium	1730		111	40.0	mg/Kg	20	☼	6020B	Total/NA
Selenium	1.6	J	5.6	0.32	mg/Kg	20	☼	6020B	Total/NA
Silver	1.0	J	1.1	0.69	mg/Kg	20	☼	6020B	Total/NA
Sodium	521		111	34.8	mg/Kg	20	☼	6020B	Total/NA
Thallium	0.19	J	0.44	0.14	mg/Kg	20	☼	6020B	Total/NA
Vanadium	46.1		2.2	0.63	mg/Kg	20	☼	6020B	Total/NA
Zinc	19200		222	108	mg/Kg	500	☼	6020B	Total/NA
Mercury	0.50		0.018	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: RX-4_9.5-11.5

Lab Sample ID: 460-165685-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0027	J	0.0046	0.0010	mg/Kg	1	☼	8260C	Total/NA
Acetone	0.011		0.0046	0.0035	mg/Kg	1	☼	8260C	Total/NA
Carbon disulfide	0.00072	J	0.00092	0.00025	mg/Kg	1	☼	8260C	Total/NA
Trichloroethene	0.00018	J B	0.00092	0.00013	mg/Kg	1	☼	8260C	Total/NA
Acenaphthylene	0.014	J	0.38	0.0039	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.029	J	0.38	0.0043	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.030	J	0.038	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.025	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.043		0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.016	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.031	J	0.38	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.057	J	0.38	0.0049	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.021	J	0.038	0.015	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.038	J	0.38	0.0067	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.046	J	0.38	0.0095	mg/Kg	1	☼	8270D	Total/NA
Aluminum	11500		19.5	6.7	mg/Kg	20	☼	6020B	Total/NA
Arsenic	2.2		0.98	0.31	mg/Kg	20	☼	6020B	Total/NA
Barium	36.7		2.0	0.65	mg/Kg	20	☼	6020B	Total/NA
Beryllium	0.51		0.39	0.16	mg/Kg	20	☼	6020B	Total/NA
Calcium	112000		97.6	29.0	mg/Kg	20	☼	6020B	Total/NA
Chromium	15.0		2.0	0.59	mg/Kg	20	☼	6020B	Total/NA
Cobalt	5.8		2.0	0.59	mg/Kg	20	☼	6020B	Total/NA
Copper	10.6		2.0	0.56	mg/Kg	20	☼	6020B	Total/NA
Iron	14500		58.5	20.5	mg/Kg	20	☼	6020B	Total/NA
Lead	13.1		0.59	0.18	mg/Kg	20	☼	6020B	Total/NA
Magnesium	63300		97.6	27.1	mg/Kg	20	☼	6020B	Total/NA
Manganese	240		3.9	1.2	mg/Kg	20	☼	6020B	Total/NA
Nickel	11.0		2.0	0.64	mg/Kg	20	☼	6020B	Total/NA
Potassium	6720		97.6	35.1	mg/Kg	20	☼	6020B	Total/NA
Sodium	961		97.6	30.5	mg/Kg	20	☼	6020B	Total/NA
Thallium	0.13	J	0.39	0.12	mg/Kg	20	☼	6020B	Total/NA
Vanadium	19.1		2.0	0.56	mg/Kg	20	☼	6020B	Total/NA
Zinc	92.3		7.8	3.8	mg/Kg	20	☼	6020B	Total/NA
Mercury	0.014	J	0.019	0.011	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-7_0.5-2.5

Lab Sample ID: 460-165685-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.00050	J	0.0010	0.000097	mg/Kg	1	☼		8260C	Total/NA
1,3,5-Trimethylbenzene	0.00046	J	0.0010	0.00012	mg/Kg	1	☼		8260C	Total/NA
Acetone	0.017		0.0052	0.0039	mg/Kg	1	☼		8260C	Total/NA
Carbon disulfide	0.00061	J	0.0010	0.00028	mg/Kg	1	☼		8260C	Total/NA
Methylene Chloride	0.00026	J B	0.0010	0.00017	mg/Kg	1	☼		8260C	Total/NA
m-Xylene & p-Xylene	0.00021	J	0.0010	0.00018	mg/Kg	1	☼		8260C	Total/NA
o-Xylene	0.00016	J	0.0010	0.000098	mg/Kg	1	☼		8260C	Total/NA
sec-Butylbenzene	0.000093	J	0.0010	0.000091	mg/Kg	1	☼		8260C	Total/NA
Tetrachloroethene	0.00016	J	0.0010	0.00015	mg/Kg	1	☼		8260C	Total/NA
Xylenes, Total	0.00038	J	0.0021	0.00026	mg/Kg	1	☼		8260C	Total/NA
2-Methylnaphthalene	0.035	J	0.37	0.0046	mg/Kg	1	☼		8270D	Total/NA
Acenaphthene	0.027	J	0.37	0.027	mg/Kg	1	☼		8270D	Total/NA
Acenaphthylene	0.035	J	0.37	0.0038	mg/Kg	1	☼		8270D	Total/NA
Anthracene	0.067	J	0.37	0.0042	mg/Kg	1	☼		8270D	Total/NA
Benzo[a]anthracene	0.23		0.037	0.013	mg/Kg	1	☼		8270D	Total/NA
Benzo[a]pyrene	0.24		0.037	0.0099	mg/Kg	1	☼		8270D	Total/NA
Benzo[b]fluoranthene	0.34		0.037	0.0096	mg/Kg	1	☼		8270D	Total/NA
Benzo[g,h,i]perylene	0.15	J	0.37	0.011	mg/Kg	1	☼		8270D	Total/NA
Benzo[k]fluoranthene	0.097		0.037	0.0073	mg/Kg	1	☼		8270D	Total/NA
Caprolactam	0.14	J	0.37	0.022	mg/Kg	1	☼		8270D	Total/NA
Carbazole	0.016	J	0.37	0.0043	mg/Kg	1	☼		8270D	Total/NA
Chrysene	0.27	J	0.37	0.0063	mg/Kg	1	☼		8270D	Total/NA
Dibenz(a,h)anthracene	0.039		0.037	0.016	mg/Kg	1	☼		8270D	Total/NA
Dibenzofuran	0.018	J	0.37	0.0052	mg/Kg	1	☼		8270D	Total/NA
Fluoranthene	0.39		0.37	0.0048	mg/Kg	1	☼		8270D	Total/NA
Fluorene	0.034	J	0.37	0.0050	mg/Kg	1	☼		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.16		0.037	0.015	mg/Kg	1	☼		8270D	Total/NA
Naphthalene	0.040	J	0.37	0.0064	mg/Kg	1	☼		8270D	Total/NA
Phenanthrene	0.22	J	0.37	0.0065	mg/Kg	1	☼		8270D	Total/NA
Pyrene	0.40		0.37	0.0092	mg/Kg	1	☼		8270D	Total/NA
Aluminum	11900		22.3	7.6	mg/Kg	20	☼		6020B	Total/NA
Antimony	0.46	J	1.1	0.33	mg/Kg	20	☼		6020B	Total/NA
Arsenic	4.4		1.1	0.36	mg/Kg	20	☼		6020B	Total/NA
Barium	184		2.2	0.74	mg/Kg	20	☼		6020B	Total/NA
Beryllium	0.53		0.45	0.18	mg/Kg	20	☼		6020B	Total/NA
Cadmium	0.76	J	1.1	0.37	mg/Kg	20	☼		6020B	Total/NA
Calcium	30100		111	33.1	mg/Kg	20	☼		6020B	Total/NA
Chromium	29.8		2.2	0.67	mg/Kg	20	☼		6020B	Total/NA
Cobalt	8.4		2.2	0.67	mg/Kg	20	☼		6020B	Total/NA
Copper	37.6		2.2	0.64	mg/Kg	20	☼		6020B	Total/NA
Iron	18300		66.9	23.4	mg/Kg	20	☼		6020B	Total/NA
Lead	196		0.67	0.21	mg/Kg	20	☼		6020B	Total/NA
Magnesium	18000		111	31.0	mg/Kg	20	☼		6020B	Total/NA
Manganese	326		4.5	1.4	mg/Kg	20	☼		6020B	Total/NA
Nickel	22.7		2.2	0.73	mg/Kg	20	☼		6020B	Total/NA
Potassium	2410		111	40.1	mg/Kg	20	☼		6020B	Total/NA
Sodium	1280		111	34.9	mg/Kg	20	☼		6020B	Total/NA
Thallium	0.21	J	0.45	0.14	mg/Kg	20	☼		6020B	Total/NA
Vanadium	32.1		2.2	0.63	mg/Kg	20	☼		6020B	Total/NA
Zinc	372		8.9	4.3	mg/Kg	20	☼		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-7_0.5-2.5 (Continued)

Lab Sample ID: 460-165685-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.24		0.017	0.010	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: Dup-20180928

Lab Sample ID: 460-165685-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	2.4	J	5.0	1.9	ug/L	1		8260C	Total/NA
Acetone	10		5.0	5.0	ug/L	1		8260C	Total/NA
3 & 4 Methylphenol	4.0	J	10	0.24	ug/L	1		8270D	Total/NA
4-Methylphenol	4.0	J	10	0.24	ug/L	1		8270D	Total/NA
Carbazole	4.6	J	10	0.68	ug/L	1		8270D	Total/NA
Fluoranthene	1.0	J	10	0.84	ug/L	1		8270D	Total/NA
Naphthalene	4.0	J	10	1.1	ug/L	1		8270D	Total/NA
Phenanthrene	1.3	J	10	0.58	ug/L	1		8270D	Total/NA
Phenol	2.0	J	10	0.29	ug/L	1		8270D	Total/NA
Aluminum	577		400	188	ug/L	20		6020B	Total/NA
Antimony	3.0		2.0	0.62	ug/L	2		6020B	Total/NA
Arsenic	2.9		2.0	0.73	ug/L	2		6020B	Total/NA
Barium	252		4.0	1.2	ug/L	2		6020B	Total/NA
Calcium	111000		200	67.6	ug/L	2		6020B	Total/NA
Cobalt	2.3	J	4.0	1.6	ug/L	2		6020B	Total/NA
Copper	5.2		4.0	2.0	ug/L	2		6020B	Total/NA
Iron	1190		120	51.1	ug/L	2		6020B	Total/NA
Lead	20.9		1.2	0.55	ug/L	2		6020B	Total/NA
Magnesium	55900		2000	737	ug/L	20		6020B	Total/NA
Manganese	826		8.0	2.9	ug/L	2		6020B	Total/NA
Nickel	5.8		4.0	2.4	ug/L	2		6020B	Total/NA
Potassium	68500		200	86.7	ug/L	2		6020B	Total/NA
Sodium	1400000		2000	1280	ug/L	20		6020B	Total/NA
Vanadium	6.9		4.0	1.1	ug/L	2		6020B	Total/NA
Zinc	58.0		16.0	11.1	ug/L	2		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Method Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
6020B	Metals (ICP/MS)	SW846	TAL EDI
7470A	Mercury (CVAA)	SW846	TAL EDI
7471B	Mercury (CVAA)	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
3010A	Preparation, Total Metals	SW846	TAL EDI
3050B	Preparation, Metals	SW846	TAL EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL EDI
3546	Microwave Extraction	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI
7470A	Preparation, Mercury	SW846	TAL EDI
7471B	Preparation, Mercury	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-6_0.5-2.5

Date Collected: 09/28/18 09:15

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-1

Matrix: Solid

Percent Solids: 72.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0013	U	0.0013	0.00031	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
1,1,2,2-Tetrachloroethane	0.0013	U	0.0013	0.00028	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0013	U	0.0013	0.00040	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
1,1,2-Trichloroethane	0.0013	U	0.0013	0.00024	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
1,1-Dichloroethane	0.0013	U	0.0013	0.00027	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
1,1-Dichloroethene	0.0013	U	0.0013	0.00030	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
1,2,3-Trichlorobenzene	0.0013	U	0.0013	0.00024	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
1,2,4-Trichlorobenzene	0.0013	U	0.0013	0.00012	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
1,2,4-Trimethylbenzene	0.0013	U	0.0013	0.00013	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
1,2-Dibromo-3-Chloropropane	0.0013	U	0.0013	0.00061	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
1,2-Dichlorobenzene	0.0013	U	0.0013	0.00019	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
1,2-Dichloroethane	0.0013	U	0.0013	0.00039	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
1,2-Dichloropropane	0.0013	U	0.0013	0.00056	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
1,3,5-Trimethylbenzene	0.0013	U	0.0013	0.00015	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
1,3-Dichlorobenzene	0.0013	U	0.0013	0.00021	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
1,4-Dichlorobenzene	0.0013	U	0.0013	0.00013	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
1,4-Dioxane	0.027	U	0.027	0.012	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
2-Butanone (MEK)	0.0067	U	0.0067	0.0015	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
2-Hexanone	0.0067	U	0.0067	0.0010	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
4-Methyl-2-pentanone (MIBK)	0.0067	U	0.0067	0.00088	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Acetone	0.0067	U	0.0067	0.0050	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Benzene	0.0013	U	0.0013	0.00034	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Bromoform	0.0013	U	0.0013	0.00057	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Bromomethane	0.0013	U	0.0013	0.00063	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Carbon disulfide	0.0013	U	0.0013	0.00035	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Carbon tetrachloride	0.0013	U	0.0013	0.00024	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Chlorobenzene	0.0013	U	0.0013	0.00024	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Chlorobromomethane	0.0013	U	0.0013	0.00037	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Chlorodibromomethane	0.0013	U	0.0013	0.00026	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Chloroethane	0.0013	U	0.0013	0.00069	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Chloroform	0.0013	U	0.0013	0.00042	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Chloromethane	0.0013	U	0.0013	0.00058	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
cis-1,2-Dichloroethene	0.0013	U	0.0013	0.00020	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
cis-1,3-Dichloropropene	0.0013	U	0.0013	0.00036	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Cyclohexane	0.0013	U	0.0013	0.00029	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Dichlorobromomethane	0.0013	U	0.0013	0.00034	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Dichlorodifluoromethane	0.0013	U	0.0013	0.00045	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Ethylbenzene	0.0013	U	0.0013	0.00026	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Ethylene Dibromide	0.0013	U	0.0013	0.00024	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Isopropylbenzene	0.0013	U	0.0013	0.00017	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Methyl acetate	0.0067	U	0.0067	0.0057	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Methyl tert-butyl ether	0.0013	U	0.0013	0.00017	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Methylcyclohexane	0.0013	U	0.0013	0.00021	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Methylene Chloride	0.00025	J B	0.0013	0.00022	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
m-Xylene & p-Xylene	0.0013	U	0.0013	0.00023	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
n-Butylbenzene	0.0013	U	0.0013	0.00019	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
N-Propylbenzene	0.0013	U	0.0013	0.00023	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
o-Xylene	0.0013	U	0.0013	0.00013	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
sec-Butylbenzene	0.0013	U	0.0013	0.00012	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-6_0.5-2.5

Lab Sample ID: 460-165685-1

Date Collected: 09/28/18 09:15

Matrix: Solid

Date Received: 09/28/18 20:00

Percent Solids: 72.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.0013	U	0.0013	0.00016	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
tert-Butylbenzene	0.0013	U	0.0013	0.00017	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Tetrachloroethene	0.0013	U	0.0013	0.00019	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Toluene	0.0013	U	0.0013	0.00083	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
trans-1,2-Dichloroethene	0.0013	U	0.0013	0.00033	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
trans-1,3-Dichloropropene	0.0013	U	0.0013	0.00035	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Trichloroethene	0.00040	J B	0.0013	0.00019	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Trichlorofluoromethane	0.0013	U	0.0013	0.00054	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Vinyl chloride	0.0013	U	0.0013	0.00073	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1
Xylenes, Total	0.0027	U	0.0027	0.00034	mg/Kg	☼	09/29/18 23:16	10/02/18 00:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		78 - 135	09/29/18 23:16	10/02/18 00:50	1
4-Bromofluorobenzene	105		67 - 126	09/29/18 23:16	10/02/18 00:50	1
Dibromofluoromethane (Surr)	111		61 - 149	09/29/18 23:16	10/02/18 00:50	1
Toluene-d8 (Surr)	94		73 - 121	09/29/18 23:16	10/02/18 00:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.46	U	0.46	0.0061	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
1,2,4,5-Tetrachlorobenzene	0.46	U	0.46	0.0060	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
2,2'-oxybis[1-chloropropane]	0.46	U	0.46	0.0083	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
2,3,4,6-Tetrachlorophenol	0.46	U	0.46	0.031	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
2,4,5-Trichlorophenol	0.46	U	0.46	0.015	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
2,4,6-Trichlorophenol	0.18	U	0.18	0.023	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
2,4-Dichlorophenol	0.18	U	0.18	0.0097	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
2,4-Dimethylphenol	0.46	U	0.46	0.020	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
2,4-Dinitrophenol	0.37	U	0.37	0.22	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
2,4-Dinitrotoluene	0.093	U	0.093	0.023	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
2,6-Dinitrotoluene	0.093	U	0.093	0.015	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
2-Chloronaphthalene	0.46	U	0.46	0.021	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
2-Chlorophenol	0.46	U	0.46	0.0064	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
2-Methylnaphthalene	0.46	U	0.46	0.0057	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
2-Methylphenol	0.46	U	0.46	0.0074	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
2-Nitroaniline	0.46	U	0.46	0.017	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
2-Nitrophenol	0.46	U	0.46	0.015	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
3 & 4 Methylphenol	0.46	U	0.46	0.0078	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
3,3'-Dichlorobenzidine	0.18	U	0.18	0.069	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
3-Nitroaniline	0.46	U	0.46	0.025	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
4,6-Dinitro-2-methylphenol	0.37	U	0.37	0.074	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
4-Bromophenyl phenyl ether	0.46	U	0.46	0.0059	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
4-Chloro-3-methylphenol	0.46	U	0.46	0.0076	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
4-Chloroaniline	0.46	U	0.46	0.032	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
4-Chlorophenyl phenyl ether	0.46	U	0.46	0.0072	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
4-Methylphenol	0.46	U	0.46	0.0078	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
4-Nitroaniline	0.46	U	0.46	0.017	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
4-Nitrophenol	0.93	U	0.93	0.075	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Acenaphthene	0.46	U	0.46	0.033	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Acenaphthylene	0.0089	J	0.46	0.0047	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Acetophenone	0.46	U	0.46	0.0074	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-6_0.5-2.5

Lab Sample ID: 460-165685-1

Date Collected: 09/28/18 09:15

Matrix: Solid

Date Received: 09/28/18 20:00

Percent Solids: 72.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.066	J	0.46	0.0051	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Atrazine	0.18	U	0.18	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Benzaldehyde	0.46	U	0.46	0.020	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Benzo[a]anthracene	0.24		0.046	0.016	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Benzo[a]pyrene	0.22		0.046	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Benzo[b]fluoranthene	0.29		0.046	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Benzo[g,h,i]perylene	0.15	J	0.46	0.013	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Benzo[k]fluoranthene	0.10		0.046	0.0090	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Bis(2-chloroethoxy)methane	0.46	U	0.46	0.016	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Bis(2-chloroethyl)ether	0.046	U *	0.046	0.0055	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Bis(2-ethylhexyl) phthalate	0.46	U	0.46	0.024	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Butyl benzyl phthalate	0.46	U	0.46	0.021	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Caprolactam	0.46	U	0.46	0.027	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Carbazole	0.017	J	0.46	0.0054	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Chrysene	0.25	J	0.46	0.0077	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Dibenz(a,h)anthracene	0.041	J	0.046	0.020	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Dibenzofuran	0.46	U	0.46	0.0064	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Diethyl phthalate	0.46	U	0.46	0.0066	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Dimethyl phthalate	0.46	U	0.46	0.0055	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Di-n-butyl phthalate	0.46	U	0.46	0.081	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Di-n-octyl phthalate	0.46	U	0.46	0.024	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Fluoranthene	0.46		0.46	0.0059	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Fluorene	0.016	J	0.46	0.0062	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Hexachlorobenzene	0.046	U	0.046	0.0067	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Hexachlorobutadiene	0.093	U	0.093	0.0097	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Hexachlorocyclopentadiene	0.46	U	0.46	0.040	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Hexachloroethane	0.046	U *	0.046	0.0071	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Indeno[1,2,3-cd]pyrene	0.16		0.046	0.018	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Isophorone	0.18	U	0.18	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Naphthalene	0.46	U	0.46	0.0079	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Nitrobenzene	0.046	U *	0.046	0.011	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
N-Nitrosodi-n-propylamine	0.046	U	0.046	0.0073	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
N-Nitrosodiphenylamine	0.46	U	0.46	0.0088	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Pentachlorophenol	0.37	U	0.37	0.094	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Phenanthrene	0.30	J	0.46	0.0080	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Phenol	0.46	U	0.46	0.0068	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1
Pyrene	0.48		0.46	0.011	mg/Kg	☼	09/29/18 16:09	09/30/18 22:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	51		10 - 103	09/29/18 16:09	09/30/18 22:01	1
2-Fluorobiphenyl	55		38 - 95	09/29/18 16:09	09/30/18 22:01	1
2-Fluorophenol (Surr)	56		25 - 92	09/29/18 16:09	09/30/18 22:01	1
Nitrobenzene-d5 (Surr)	56		37 - 94	09/29/18 16:09	09/30/18 22:01	1
Phenol-d5 (Surr)	53		32 - 91	09/29/18 16:09	09/30/18 22:01	1
Terphenyl-d14 (Surr)	59		24 - 109	09/29/18 16:09	09/30/18 22:01	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7270		23.5	8.0	mg/Kg	☼	10/03/18 16:56	10/04/18 13:23	20
Antimony	0.35	J	1.2	0.34	mg/Kg	☼	10/03/18 16:56	10/04/18 13:23	20

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-6_0.5-2.5

Date Collected: 09/28/18 09:15

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-1

Matrix: Solid

Percent Solids: 72.2

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.8		1.2	0.38	mg/Kg	☼	10/03/18 16:56	10/04/18 13:23	20
Barium	105		2.3	0.78	mg/Kg	☼	10/03/18 16:56	10/04/18 13:23	20
Beryllium	0.29	J	0.47	0.19	mg/Kg	☼	10/03/18 16:56	10/04/18 13:23	20
Cadmium	1.4		1.2	0.39	mg/Kg	☼	10/03/18 16:56	10/04/18 13:23	20
Calcium	14900		117	34.9	mg/Kg	☼	10/03/18 16:56	10/04/18 13:23	20
Chromium	15.3		2.3	0.70	mg/Kg	☼	10/03/18 16:56	10/04/18 13:23	20
Cobalt	4.9		2.3	0.71	mg/Kg	☼	10/03/18 16:56	10/04/18 13:23	20
Copper	72.5		2.3	0.67	mg/Kg	☼	10/03/18 16:56	10/04/18 13:23	20
Iron	12200		70.4	24.6	mg/Kg	☼	10/03/18 16:56	10/04/18 13:23	20
Lead	345		0.70	0.22	mg/Kg	☼	10/03/18 16:56	10/04/18 13:23	20
Magnesium	10400		117	32.6	mg/Kg	☼	10/03/18 16:56	10/04/18 13:23	20
Manganese	221		4.7	1.4	mg/Kg	☼	10/03/18 16:56	10/04/18 13:23	20
Nickel	13.0		2.3	0.76	mg/Kg	☼	10/03/18 16:56	10/04/18 13:23	20
Potassium	1590		117	42.2	mg/Kg	☼	10/03/18 16:56	10/04/18 13:23	20
Selenium	5.9	U	5.9	0.34	mg/Kg	☼	10/03/18 16:56	10/04/18 13:23	20
Silver	1.8		1.2	0.73	mg/Kg	☼	10/03/18 16:56	10/04/18 13:23	20
Sodium	367		117	36.7	mg/Kg	☼	10/03/18 16:56	10/04/18 13:23	20
Thallium	0.47	U	0.47	0.15	mg/Kg	☼	10/03/18 16:56	10/04/18 13:23	20
Vanadium	30.8		2.3	0.67	mg/Kg	☼	10/03/18 16:56	10/04/18 13:23	20
Zinc	298		9.4	4.6	mg/Kg	☼	10/03/18 16:56	10/04/18 13:23	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.056		0.021	0.013	mg/Kg	☼	10/03/18 04:31	10/03/18 10:21	1

Client Sample ID: RX-6_9.0-11.0

Date Collected: 09/28/18 09:30

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-2

Matrix: Solid

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00096	U	0.00096	0.00022	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
1,1,2,2-Tetrachloroethane	0.00096	U	0.00096	0.00021	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00096	U	0.00096	0.00029	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
1,1,2-Trichloroethane	0.00096	U	0.00096	0.00017	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
1,1-Dichloroethane	0.00096	U	0.00096	0.00020	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
1,1-Dichloroethene	0.00096	U	0.00096	0.00022	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
1,2,3-Trichlorobenzene	0.00096	U	0.00096	0.00017	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
1,2,4-Trichlorobenzene	0.00096	U	0.00096	0.000089	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
1,2,4-Trimethylbenzene	0.00096	U	0.00096	0.000091	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
1,2-Dibromo-3-Chloropropane	0.00096	U	0.00096	0.00044	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
1,2-Dichlorobenzene	0.00096	U	0.00096	0.00014	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
1,2-Dichloroethane	0.00096	U	0.00096	0.00029	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
1,2-Dichloropropane	0.00096	U	0.00096	0.00041	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
1,3,5-Trimethylbenzene	0.00096	U	0.00096	0.00011	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
1,3-Dichlorobenzene	0.00096	U	0.00096	0.00015	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
1,4-Dichlorobenzene	0.00096	U	0.00096	0.000096	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
1,4-Dioxane	0.019	U	0.019	0.0088	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
2-Butanone (MEK)	0.0048	U	0.0048	0.0011	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
2-Hexanone	0.0048	U	0.0048	0.00075	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-6_9.0-11.0

Lab Sample ID: 460-165685-2

Date Collected: 09/28/18 09:30

Matrix: Solid

Date Received: 09/28/18 20:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	0.0048	U	0.0048	0.00064	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Acetone	0.014		0.0048	0.0037	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Benzene	0.00096	U	0.00096	0.00025	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Bromoform	0.00096	U	0.00096	0.00041	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Bromomethane	0.00096	U	0.00096	0.00046	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Carbon disulfide	0.00035	J	0.00096	0.00026	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Carbon tetrachloride	0.00096	U	0.00096	0.00017	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Chlorobenzene	0.00096	U	0.00096	0.00017	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Chlorobromomethane	0.00096	U	0.00096	0.00027	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Chlorodibromomethane	0.00096	U	0.00096	0.00019	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Chloroethane	0.00096	U	0.00096	0.00050	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Chloroform	0.00096	U	0.00096	0.00031	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Chloromethane	0.00096	U	0.00096	0.00042	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
cis-1,2-Dichloroethene	0.00096	U	0.00096	0.00015	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
cis-1,3-Dichloropropene	0.00096	U	0.00096	0.00026	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Cyclohexane	0.00096	U	0.00096	0.00021	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Dichlorobromomethane	0.00096	U	0.00096	0.00025	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Dichlorodifluoromethane	0.00096	U	0.00096	0.00033	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Ethylbenzene	0.00096	U	0.00096	0.00019	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Ethylene Dibromide	0.00096	U	0.00096	0.00017	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Isopropylbenzene	0.00096	U	0.00096	0.00012	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Methyl acetate	0.0048	U	0.0048	0.0041	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Methyl tert-butyl ether	0.00096	U	0.00096	0.00012	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Methylcyclohexane	0.00096	U	0.00096	0.00015	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Methylene Chloride	0.00021	J B	0.00096	0.00016	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
m-Xylene & p-Xylene	0.00096	U	0.00096	0.00017	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
n-Butylbenzene	0.00096	U	0.00096	0.00014	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
N-Propylbenzene	0.00096	U	0.00096	0.00017	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
o-Xylene	0.00096	U	0.00096	0.000092	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
sec-Butylbenzene	0.00096	U	0.00096	0.000085	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Styrene	0.00096	U	0.00096	0.00012	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
tert-Butylbenzene	0.00096	U	0.00096	0.00012	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Tetrachloroethene	0.00096	U	0.00096	0.00014	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Toluene	0.00096	U	0.00096	0.00060	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
trans-1,2-Dichloroethene	0.00096	U	0.00096	0.00024	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
trans-1,3-Dichloropropene	0.00096	U	0.00096	0.00026	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Trichloroethene	0.00096	U	0.00096	0.00014	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Trichlorofluoromethane	0.00096	U	0.00096	0.00039	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Vinyl chloride	0.00096	U	0.00096	0.00053	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1
Xylenes, Total	0.0019	U	0.0019	0.00024	mg/Kg	☼	09/29/18 23:17	10/01/18 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		78 - 135	09/29/18 23:17	10/01/18 13:44	1
4-Bromofluorobenzene	108		67 - 126	09/29/18 23:17	10/01/18 13:44	1
Dibromofluoromethane (Surr)	111		61 - 149	09/29/18 23:17	10/01/18 13:44	1
Toluene-d8 (Surr)	95		73 - 121	09/29/18 23:17	10/01/18 13:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.38	U	0.38	0.0051	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-6_9.0-11.0

Lab Sample ID: 460-165685-2

Date Collected: 09/28/18 09:30

Matrix: Solid

Date Received: 09/28/18 20:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	0.38	U	0.38	0.0050	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
2,2'-oxybis[1-chloropropane]	0.38	U	0.38	0.0069	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
2,3,4,6-Tetrachlorophenol	0.38	U	0.38	0.026	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
2,4,5-Trichlorophenol	0.38	U	0.38	0.013	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.019	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
2,4-Dichlorophenol	0.15	U	0.15	0.0081	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
2,4-Dimethylphenol	0.38	U	0.38	0.017	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
2,4-Dinitrophenol	0.31	U	0.31	0.19	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
2,4-Dinitrotoluene	0.078	U	0.078	0.019	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
2,6-Dinitrotoluene	0.078	U	0.078	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
2-Chloronaphthalene	0.38	U	0.38	0.018	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
2-Chlorophenol	0.38	U	0.38	0.0054	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
2-Methylnaphthalene	0.38	U	0.38	0.0048	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
2-Methylphenol	0.38	U	0.38	0.0062	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
2-Nitroaniline	0.38	U	0.38	0.014	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
2-Nitrophenol	0.38	U	0.38	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
3 & 4 Methylphenol	0.38	U	0.38	0.0065	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.058	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
3-Nitroaniline	0.38	U	0.38	0.021	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
4,6-Dinitro-2-methylphenol	0.31	U	0.31	0.062	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
4-Bromophenyl phenyl ether	0.38	U	0.38	0.0050	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
4-Chloro-3-methylphenol	0.38	U	0.38	0.0064	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
4-Chloroaniline	0.38	U	0.38	0.027	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
4-Chlorophenyl phenyl ether	0.38	U	0.38	0.0060	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
4-Methylphenol	0.38	U	0.38	0.0065	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
4-Nitroaniline	0.38	U	0.38	0.014	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
4-Nitrophenol	0.78	U	0.78	0.062	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Acenaphthene	0.38	U	0.38	0.028	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Acenaphthylene	0.38	U	0.38	0.0040	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Acetophenone	0.38	U	0.38	0.0062	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Anthracene	0.030	J	0.38	0.0043	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Atrazine	0.15	U	0.15	0.0097	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Benzaldehyde	0.38	U	0.38	0.017	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Benzo[a]anthracene	0.080		0.038	0.013	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Benzo[a]pyrene	0.067		0.038	0.010	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Benzo[b]fluoranthene	0.087		0.038	0.0099	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Benzo[g,h,i]perylene	0.044	J	0.38	0.011	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Benzo[k]fluoranthene	0.031	J	0.038	0.0075	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Bis(2-chloroethoxy)methane	0.38	U	0.38	0.013	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Bis(2-chloroethyl)ether	0.038	U *	0.038	0.0046	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Bis(2-ethylhexyl) phthalate	0.38	U	0.38	0.020	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Butyl benzyl phthalate	0.38	U	0.38	0.018	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Caprolactam	0.38	U	0.38	0.023	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Carbazole	0.013	J	0.38	0.0045	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Chrysene	0.071	J	0.38	0.0065	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Dibenz(a,h)anthracene	0.038	U	0.038	0.017	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Dibenzofuran	0.38	U	0.38	0.0054	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Diethyl phthalate	0.38	U	0.38	0.0056	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Dimethyl phthalate	0.38	U	0.38	0.0046	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-6_9.0-11.0

Lab Sample ID: 460-165685-2

Date Collected: 09/28/18 09:30

Matrix: Solid

Date Received: 09/28/18 20:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	0.38	U	0.38	0.068	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Di-n-octyl phthalate	0.38	U	0.38	0.020	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Fluoranthene	0.15	J	0.38	0.0050	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Fluorene	0.013	J	0.38	0.0052	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Hexachlorobenzene	0.038	U	0.038	0.0056	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Hexachlorobutadiene	0.078	U	0.078	0.0082	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Hexachlorocyclopentadiene	0.38	U	0.38	0.034	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Hexachloroethane	0.038	U *	0.038	0.0059	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Indeno[1,2,3-cd]pyrene	0.046		0.038	0.015	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Isophorone	0.15	U	0.15	0.010	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Naphthalene	0.38	U	0.38	0.0066	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Nitrobenzene	0.038	U *	0.038	0.0092	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
N-Nitrosodi-n-propylamine	0.038	U	0.038	0.0061	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
N-Nitrosodiphenylamine	0.38	U	0.38	0.0073	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Pentachlorophenol	0.31	U	0.31	0.079	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Phenanthrene	0.12	J	0.38	0.0067	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Phenol	0.38	U	0.38	0.0057	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1
Pyrene	0.16	J	0.38	0.0095	mg/Kg	☼	09/29/18 16:09	09/30/18 22:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	36		10 - 103	09/29/18 16:09	09/30/18 22:25	1
2-Fluorobiphenyl	57		38 - 95	09/29/18 16:09	09/30/18 22:25	1
2-Fluorophenol (Surr)	66		25 - 92	09/29/18 16:09	09/30/18 22:25	1
Nitrobenzene-d5 (Surr)	62		37 - 94	09/29/18 16:09	09/30/18 22:25	1
Phenol-d5 (Surr)	63		32 - 91	09/29/18 16:09	09/30/18 22:25	1
Terphenyl-d14 (Surr)	60		24 - 109	09/29/18 16:09	09/30/18 22:25	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8270		21.5	7.4	mg/Kg	☼	10/03/18 16:56	10/04/18 13:26	20
Antimony	1.1	U	1.1	0.31	mg/Kg	☼	10/03/18 16:56	10/04/18 13:26	20
Arsenic	1.3		1.1	0.34	mg/Kg	☼	10/03/18 16:56	10/04/18 13:26	20
Barium	31.6		2.1	0.71	mg/Kg	☼	10/03/18 16:56	10/04/18 13:26	20
Beryllium	0.37	J	0.43	0.17	mg/Kg	☼	10/03/18 16:56	10/04/18 13:26	20
Cadmium	1.1	U	1.1	0.36	mg/Kg	☼	10/03/18 16:56	10/04/18 13:26	20
Calcium	39400		107	31.9	mg/Kg	☼	10/03/18 16:56	10/04/18 13:26	20
Chromium	13.5		2.1	0.64	mg/Kg	☼	10/03/18 16:56	10/04/18 13:26	20
Cobalt	5.6		2.1	0.65	mg/Kg	☼	10/03/18 16:56	10/04/18 13:26	20
Copper	12.7		2.1	0.62	mg/Kg	☼	10/03/18 16:56	10/04/18 13:26	20
Iron	13000		64.4	22.5	mg/Kg	☼	10/03/18 16:56	10/04/18 13:26	20
Lead	8.0		0.64	0.20	mg/Kg	☼	10/03/18 16:56	10/04/18 13:26	20
Magnesium	24700		107	29.9	mg/Kg	☼	10/03/18 16:56	10/04/18 13:26	20
Manganese	185		4.3	1.3	mg/Kg	☼	10/03/18 16:56	10/04/18 13:26	20
Nickel	13.1		2.1	0.70	mg/Kg	☼	10/03/18 16:56	10/04/18 13:26	20
Potassium	2490		107	38.7	mg/Kg	☼	10/03/18 16:56	10/04/18 13:26	20
Selenium	5.4	U	5.4	0.31	mg/Kg	☼	10/03/18 16:56	10/04/18 13:26	20
Silver	1.1	U	1.1	0.66	mg/Kg	☼	10/03/18 16:56	10/04/18 13:26	20
Sodium	432		107	33.6	mg/Kg	☼	10/03/18 16:56	10/04/18 13:26	20
Thallium	0.43	U	0.43	0.13	mg/Kg	☼	10/03/18 16:56	10/04/18 13:26	20
Vanadium	15.7		2.1	0.61	mg/Kg	☼	10/03/18 16:56	10/04/18 13:26	20

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-6_9.0-11.0

Date Collected: 09/28/18 09:30

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-2

Matrix: Solid

Percent Solids: 86.2

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	35.3		8.6	4.2	mg/Kg	☼	10/03/18 16:56	10/04/18 13:26	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	U	0.019	0.011	mg/Kg	☼	10/03/18 04:31	10/03/18 10:23	1

Client Sample ID: RX-6_14.0-16.0

Date Collected: 09/28/18 09:45

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-3

Matrix: Solid

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0012	U	0.0012	0.00029	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
1,1,2,2-Tetrachloroethane	0.0012	U	0.0012	0.00026	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0012	U	0.0012	0.00037	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
1,1,2-Trichloroethane	0.0012	U	0.0012	0.00022	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
1,1-Dichloroethane	0.0012	U	0.0012	0.00025	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
1,1-Dichloroethene	0.0012	U	0.0012	0.00028	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
1,2,3-Trichlorobenzene	0.0012	U	0.0012	0.00022	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
1,2,4-Trichlorobenzene	0.0012	U	0.0012	0.00011	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
1,2,4-Trimethylbenzene	0.0012	U	0.0012	0.00012	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
1,2-Dibromo-3-Chloropropane	0.0012	U	0.0012	0.00057	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
1,2-Dichlorobenzene	0.0012	U	0.0012	0.00018	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
1,2-Dichloroethane	0.0012	U	0.0012	0.00036	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
1,2-Dichloropropane	0.0012	U	0.0012	0.00052	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
1,3,5-Trimethylbenzene	0.0012	U	0.0012	0.00014	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
1,3-Dichlorobenzene	0.0012	U	0.0012	0.00020	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
1,4-Dichlorobenzene	0.0012	U	0.0012	0.00012	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
1,4-Dioxane	0.025	U	0.025	0.011	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
2-Butanone (MEK)	0.0035	J	0.0062	0.0014	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
2-Hexanone	0.0062	U	0.0062	0.00096	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
4-Methyl-2-pentanone (MIBK)	0.0062	U	0.0062	0.00082	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Acetone	0.012		0.0062	0.0047	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Benzene	0.0012	U	0.0012	0.00032	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Bromoform	0.0012	U	0.0012	0.00052	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Bromomethane	0.0012	U	0.0012	0.00058	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Carbon disulfide	0.0012	U	0.0012	0.00033	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Carbon tetrachloride	0.0012	U	0.0012	0.00022	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Chlorobenzene	0.0012	U	0.0012	0.00022	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Chlorobromomethane	0.0012	U	0.0012	0.00035	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Chlorodibromomethane	0.0012	U	0.0012	0.00024	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Chloroethane	0.0012	U	0.0012	0.00064	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Chloroform	0.0012	U	0.0012	0.00039	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Chloromethane	0.0012	U	0.0012	0.00054	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
cis-1,2-Dichloroethene	0.0012	U	0.0012	0.00019	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
cis-1,3-Dichloropropene	0.0012	U	0.0012	0.00034	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Cyclohexane	0.0012	U	0.0012	0.00027	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Dichlorobromomethane	0.0012	U	0.0012	0.00032	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Dichlorodifluoromethane	0.0012	U	0.0012	0.00042	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Ethylbenzene	0.0012	U	0.0012	0.00025	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-6_14.0-16.0

Lab Sample ID: 460-165685-3

Date Collected: 09/28/18 09:45

Matrix: Solid

Date Received: 09/28/18 20:00

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	0.0012	U	0.0012	0.00022	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Isopropylbenzene	0.0012	U	0.0012	0.00016	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Methyl acetate	0.0062	U	0.0062	0.0053	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Methyl tert-butyl ether	0.0012	U	0.0012	0.00015	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Methylcyclohexane	0.0012	U	0.0012	0.00020	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Methylene Chloride	0.0012	U	0.0012	0.00020	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
m-Xylene & p-Xylene	0.0012	U	0.0012	0.00021	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
n-Butylbenzene	0.0012	U	0.0012	0.00017	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
N-Propylbenzene	0.0012	U	0.0012	0.00022	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
o-Xylene	0.0012	U	0.0012	0.00012	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
sec-Butylbenzene	0.0012	U	0.0012	0.00011	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Styrene	0.0012	U	0.0012	0.00015	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
tert-Butylbenzene	0.0012	U	0.0012	0.00015	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Tetrachloroethene	0.0012	U	0.0012	0.00018	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Toluene	0.0012	U	0.0012	0.00077	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
trans-1,2-Dichloroethene	0.0012	U	0.0012	0.00030	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
trans-1,3-Dichloropropene	0.0012	U	0.0012	0.00033	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Trichloroethene	0.00026	J B	0.0012	0.00018	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Trichlorofluoromethane	0.0012	U	0.0012	0.00050	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Vinyl chloride	0.0012	U	0.0012	0.00067	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1
Xylenes, Total	0.0025	U	0.0025	0.00031	mg/Kg	☼	09/29/18 23:18	10/02/18 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		78 - 135	09/29/18 23:18	10/02/18 01:14	1
4-Bromofluorobenzene	107		67 - 126	09/29/18 23:18	10/02/18 01:14	1
Dibromofluoromethane (Surr)	111		61 - 149	09/29/18 23:18	10/02/18 01:14	1
Toluene-d8 (Surr)	93		73 - 121	09/29/18 23:18	10/02/18 01:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.41	U	0.41	0.0055	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
1,2,4,5-Tetrachlorobenzene	0.41	U	0.41	0.0054	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
2,2'-oxybis[1-chloropropane]	0.41	U	0.41	0.0074	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
2,3,4,6-Tetrachlorophenol	0.41	U	0.41	0.028	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
2,4,5-Trichlorophenol	0.41	U	0.41	0.014	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
2,4,6-Trichlorophenol	0.17	U	0.17	0.021	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
2,4-Dichlorophenol	0.17	U	0.17	0.0087	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
2,4-Dimethylphenol	0.41	U	0.41	0.018	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
2,4-Dinitrophenol	0.33	U	0.33	0.20	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
2,4-Dinitrotoluene	0.083	U	0.083	0.021	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
2,6-Dinitrotoluene	0.083	U	0.083	0.013	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
2-Chloronaphthalene	0.41	U	0.41	0.019	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
2-Chlorophenol	0.41	U	0.41	0.0058	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
2-Methylnaphthalene	0.41	U	0.41	0.0051	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
2-Methylphenol	0.41	U	0.41	0.0066	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
2-Nitroaniline	0.41	U	0.41	0.015	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
2-Nitrophenol	0.41	U	0.41	0.013	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
3 & 4 Methylphenol	0.41	U	0.41	0.0070	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
3,3'-Dichlorobenzidine	0.17	U	0.17	0.062	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
3-Nitroaniline	0.41	U	0.41	0.022	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-6_14.0-16.0

Lab Sample ID: 460-165685-3

Date Collected: 09/28/18 09:45

Matrix: Solid

Date Received: 09/28/18 20:00

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	0.33	U	0.33	0.067	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
4-Bromophenyl phenyl ether	0.41	U	0.41	0.0053	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
4-Chloro-3-methylphenol	0.41	U	0.41	0.0068	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
4-Chloroaniline	0.41	U	0.41	0.029	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
4-Chlorophenyl phenyl ether	0.41	U	0.41	0.0065	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
4-Methylphenol	0.41	U	0.41	0.0070	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
4-Nitroaniline	0.41	U	0.41	0.015	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
4-Nitrophenol	0.83	U	0.83	0.067	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Acenaphthene	0.41	U	0.41	0.030	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Acenaphthylene	0.41	U	0.41	0.0042	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Acetophenone	0.41	U	0.41	0.0066	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Anthracene	0.41	U	0.41	0.0046	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Atrazine	0.17	U	0.17	0.010	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Benzaldehyde	0.41	U	0.41	0.018	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Benzo[a]anthracene	0.041	U	0.041	0.014	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Benzo[a]pyrene	0.041	U	0.041	0.011	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Benzo[b]fluoranthene	0.041	U	0.041	0.011	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Benzo[g,h,i]perylene	0.41	U	0.41	0.012	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Benzo[k]fluoranthene	0.041	U	0.041	0.0081	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Bis(2-chloroethoxy)methane	0.41	U	0.41	0.014	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Bis(2-chloroethyl)ether	0.041	U *	0.041	0.0050	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Bis(2-ethylhexyl) phthalate	0.41	U	0.41	0.022	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Butyl benzyl phthalate	0.41	U	0.41	0.019	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Caprolactam	0.41	U	0.41	0.025	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Carbazole	0.41	U	0.41	0.0048	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Chrysene	0.41	U	0.41	0.0069	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Dibenz(a,h)anthracene	0.041	U	0.041	0.018	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Dibenzofuran	0.41	U	0.41	0.0058	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Diethyl phthalate	0.41	U	0.41	0.0060	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Dimethyl phthalate	0.41	U	0.41	0.0050	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Di-n-butyl phthalate	0.41	U	0.41	0.073	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Di-n-octyl phthalate	0.41	U	0.41	0.022	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Fluoranthene	0.41	U	0.41	0.0053	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Fluorene	0.41	U	0.41	0.0056	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Hexachlorobenzene	0.041	U	0.041	0.0060	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Hexachlorobutadiene	0.083	U	0.083	0.0087	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Hexachlorocyclopentadiene	0.41	U	0.41	0.036	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Hexachloroethane	0.041	U *	0.041	0.0063	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Indeno[1,2,3-cd]pyrene	0.041	U	0.041	0.016	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Isophorone	0.17	U	0.17	0.011	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Naphthalene	0.41	U	0.41	0.0071	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Nitrobenzene	0.041	U *	0.041	0.0099	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
N-Nitrosodi-n-propylamine	0.041	U	0.041	0.0065	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
N-Nitrosodiphenylamine	0.41	U	0.41	0.0079	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Pentachlorophenol	0.33	U	0.33	0.084	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Phenanthrene	0.41	U	0.41	0.0072	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Phenol	0.41	U	0.41	0.0061	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1
Pyrene	0.41	U	0.41	0.010	mg/Kg	☼	09/29/18 16:09	09/30/18 22:49	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-6_14.0-16.0

Date Collected: 09/28/18 09:45

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-3

Matrix: Solid

Percent Solids: 80.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	58		10 - 103	09/29/18 16:09	09/30/18 22:49	1
2-Fluorobiphenyl	47		38 - 95	09/29/18 16:09	09/30/18 22:49	1
2-Fluorophenol (Surr)	57		25 - 92	09/29/18 16:09	09/30/18 22:49	1
Nitrobenzene-d5 (Surr)	49		37 - 94	09/29/18 16:09	09/30/18 22:49	1
Phenol-d5 (Surr)	53		32 - 91	09/29/18 16:09	09/30/18 22:49	1
Terphenyl-d14 (Surr)	55		24 - 109	09/29/18 16:09	09/30/18 22:49	1

Client Sample ID: RX-6

Date Collected: 09/28/18 09:00

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/03/18 18:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			10/03/18 18:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/03/18 18:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			10/03/18 18:55	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			10/03/18 18:55	1
1,1-Dichloroethene	1.0	U	1.0	0.12	ug/L			10/03/18 18:55	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			10/03/18 18:55	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			10/03/18 18:55	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			10/03/18 18:55	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			10/03/18 18:55	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			10/03/18 18:55	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			10/03/18 18:55	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			10/03/18 18:55	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			10/03/18 18:55	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			10/03/18 18:55	1
1,4-Dichlorobenzene	1.0	U	1.0	0.76	ug/L			10/03/18 18:55	1
1,4-Dioxane	50	U	50	28	ug/L			10/03/18 18:55	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			10/03/18 18:55	1
2-Hexanone	5.0	U	5.0	2.9	ug/L			10/03/18 18:55	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.7	ug/L			10/03/18 18:55	1
Acetone	5.0	U	5.0	5.0	ug/L			10/03/18 18:55	1
Benzene	1.0	U	1.0	0.43	ug/L			10/03/18 18:55	1
Bromoform	1.0	U	1.0	0.54	ug/L			10/03/18 18:55	1
Bromomethane	1.0	U	1.0	1.0	ug/L			10/03/18 18:55	1
Carbon disulfide	1.0	U	1.0	0.16	ug/L			10/03/18 18:55	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			10/03/18 18:55	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			10/03/18 18:55	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			10/03/18 18:55	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			10/03/18 18:55	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/03/18 18:55	1
Chloroform	1.0	U	1.0	0.33	ug/L			10/03/18 18:55	1
Chloromethane	1.0	U	1.0	0.14	ug/L			10/03/18 18:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			10/03/18 18:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/03/18 18:55	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			10/03/18 18:55	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			10/03/18 18:55	1
Dichlorodifluoromethane	1.0	U	1.0	0.12	ug/L			10/03/18 18:55	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-6

Date Collected: 09/28/18 09:00

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0	0.30	ug/L			10/03/18 18:55	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			10/03/18 18:55	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			10/03/18 18:55	1
Methyl acetate	5.0	U	5.0	0.31	ug/L			10/03/18 18:55	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			10/03/18 18:55	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			10/03/18 18:55	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			10/03/18 18:55	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			10/03/18 18:55	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			10/03/18 18:55	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			10/03/18 18:55	1
o-Xylene	1.0	U	1.0	0.36	ug/L			10/03/18 18:55	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			10/03/18 18:55	1
Styrene	1.0	U	1.0	0.42	ug/L			10/03/18 18:55	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			10/03/18 18:55	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			10/03/18 18:55	1
Toluene	1.0	U	1.0	0.38	ug/L			10/03/18 18:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/03/18 18:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			10/03/18 18:55	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			10/03/18 18:55	1
Trichlorofluoromethane	1.0	U	1.0	0.14	ug/L			10/03/18 18:55	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			10/03/18 18:55	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			10/03/18 18:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		74 - 132					10/03/18 18:55	1
4-Bromofluorobenzene	95		77 - 124					10/03/18 18:55	1
Dibromofluoromethane (Surr)	110		72 - 131					10/03/18 18:55	1
Toluene-d8 (Surr)	93		80 - 120					10/03/18 18:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		09/29/18 16:20	09/30/18 20:39	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		09/29/18 16:20	09/30/18 20:39	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		09/29/18 16:20	09/30/18 20:39	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		09/29/18 16:20	09/30/18 20:39	1
2,4,5-Trichlorophenol	10	U	10	0.28	ug/L		09/29/18 16:20	09/30/18 20:39	1
2,4,6-Trichlorophenol	10	U	10	0.30	ug/L		09/29/18 16:20	09/30/18 20:39	1
2,4-Dichlorophenol	10	U	10	0.42	ug/L		09/29/18 16:20	09/30/18 20:39	1
2,4-Dimethylphenol	10	U	10	0.24	ug/L		09/29/18 16:20	09/30/18 20:39	1
2,4-Dinitrophenol	20	U	20	14	ug/L		09/29/18 16:20	09/30/18 20:39	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		09/29/18 16:20	09/30/18 20:39	1
2,6-Dinitrotoluene	2.0	U	2.0	0.39	ug/L		09/29/18 16:20	09/30/18 20:39	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		09/29/18 16:20	09/30/18 20:39	1
2-Chlorophenol	10	U	10	0.38	ug/L		09/29/18 16:20	09/30/18 20:39	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/29/18 16:20	09/30/18 20:39	1
2-Methylphenol	10	U	10	0.26	ug/L		09/29/18 16:20	09/30/18 20:39	1
2-Nitroaniline	10	U	10	0.47	ug/L		09/29/18 16:20	09/30/18 20:39	1
2-Nitrophenol	10	U	10	0.75	ug/L		09/29/18 16:20	09/30/18 20:39	1
3 & 4 Methylphenol	10	U	10	0.24	ug/L		09/29/18 16:20	09/30/18 20:39	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		09/29/18 16:20	09/30/18 20:39	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-6

Date Collected: 09/28/18 09:00

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	10	U	10	0.96	ug/L		09/29/18 16:20	09/30/18 20:39	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		09/29/18 16:20	09/30/18 20:39	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		09/29/18 16:20	09/30/18 20:39	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		09/29/18 16:20	09/30/18 20:39	1
4-Chloroaniline	10	U	10	1.9	ug/L		09/29/18 16:20	09/30/18 20:39	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		09/29/18 16:20	09/30/18 20:39	1
4-Methylphenol	10	U	10	0.24	ug/L		09/29/18 16:20	09/30/18 20:39	1
4-Nitroaniline	10	U	10	0.54	ug/L		09/29/18 16:20	09/30/18 20:39	1
4-Nitrophenol	20	U *	20	0.69	ug/L		09/29/18 16:20	09/30/18 20:39	1
Acenaphthene	10	U	10	1.1	ug/L		09/29/18 16:20	09/30/18 20:39	1
Acenaphthylene	10	U	10	0.82	ug/L		09/29/18 16:20	09/30/18 20:39	1
Acetophenone	10	U	10	0.79	ug/L		09/29/18 16:20	09/30/18 20:39	1
Anthracene	10	U	10	0.63	ug/L		09/29/18 16:20	09/30/18 20:39	1
Atrazine	2.0	U	2.0	1.3	ug/L		09/29/18 16:20	09/30/18 20:39	1
Benzaldehyde	10	U	10	0.59	ug/L		09/29/18 16:20	09/30/18 20:39	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/29/18 16:20	09/30/18 20:39	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/29/18 16:20	09/30/18 20:39	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/29/18 16:20	09/30/18 20:39	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/29/18 16:20	09/30/18 20:39	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/29/18 16:20	09/30/18 20:39	1
Bis(2-chloroethoxy)methane	10	U	10	0.24	ug/L		09/29/18 16:20	09/30/18 20:39	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.30	ug/L		09/29/18 16:20	09/30/18 20:39	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		09/29/18 16:20	09/30/18 20:39	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		09/29/18 16:20	09/30/18 20:39	1
Caprolactam	10	U	10	0.68	ug/L		09/29/18 16:20	09/30/18 20:39	1
Carbazole	10	U	10	0.68	ug/L		09/29/18 16:20	09/30/18 20:39	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/29/18 16:20	09/30/18 20:39	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/29/18 16:20	09/30/18 20:39	1
Dibenzofuran	10	U	10	1.1	ug/L		09/29/18 16:20	09/30/18 20:39	1
Diethyl phthalate	10	U	10	0.98	ug/L		09/29/18 16:20	09/30/18 20:39	1
Dimethyl phthalate	10	U	10	0.77	ug/L		09/29/18 16:20	09/30/18 20:39	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		09/29/18 16:20	09/30/18 20:39	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		09/29/18 16:20	09/30/18 20:39	1
Fluoranthene	10	U	10	0.84	ug/L		09/29/18 16:20	09/30/18 20:39	1
Fluorene	10	U	10	0.91	ug/L		09/29/18 16:20	09/30/18 20:39	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		09/29/18 16:20	09/30/18 20:39	1
Hexachlorobutadiene	1.0	U *	1.0	0.78	ug/L		09/29/18 16:20	09/30/18 20:39	1
Hexachlorocyclopentadiene	10	U *	10	1.7	ug/L		09/29/18 16:20	09/30/18 20:39	1
Hexachloroethane	2.0	U	2.0	1.2	ug/L		09/29/18 16:20	09/30/18 20:39	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/29/18 16:20	09/30/18 20:39	1
Isophorone	10	U	10	0.80	ug/L		09/29/18 16:20	09/30/18 20:39	1
Naphthalene	10	U	10	1.1	ug/L		09/29/18 16:20	09/30/18 20:39	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		09/29/18 16:20	09/30/18 20:39	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		09/29/18 16:20	09/30/18 20:39	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		09/29/18 16:20	09/30/18 20:39	1
Pentachlorophenol	20	U	20	1.4	ug/L		09/29/18 16:20	09/30/18 20:39	1
Phenanthrene	10	U	10	0.58	ug/L		09/29/18 16:20	09/30/18 20:39	1
Phenol	10	U	10	0.29	ug/L		09/29/18 16:20	09/30/18 20:39	1
Pyrene	10	U	10	1.6	ug/L		09/29/18 16:20	09/30/18 20:39	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-6

Date Collected: 09/28/18 09:00

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-4

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		26 - 139	09/29/18 16:20	09/30/18 20:39	1
2-Fluorobiphenyl	49		45 - 107	09/29/18 16:20	09/30/18 20:39	1
2-Fluorophenol (Surr)	27		25 - 58	09/29/18 16:20	09/30/18 20:39	1
Nitrobenzene-d5 (Surr)	61		51 - 108	09/29/18 16:20	09/30/18 20:39	1
Phenol-d5 (Surr)	17		14 - 39	09/29/18 16:20	09/30/18 20:39	1
Terphenyl-d14 (Surr)	54		40 - 148	09/29/18 16:20	09/30/18 20:39	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	470		400	188	ug/L		10/03/18 19:55	10/04/18 16:41	20
Antimony	0.91	J	2.0	0.62	ug/L		10/03/18 19:55	10/04/18 15:13	2
Arsenic	2.0	U	2.0	0.73	ug/L		10/03/18 19:55	10/04/18 15:13	2
Barium	536		4.0	1.2	ug/L		10/03/18 19:55	10/04/18 15:13	2
Beryllium	0.80	U	0.80	0.25	ug/L		10/03/18 19:55	10/04/18 15:13	2
Cadmium	2.0	U	2.0	0.81	ug/L		10/03/18 19:55	10/04/18 15:13	2
Calcium	185000		200	67.6	ug/L		10/03/18 19:55	10/04/18 15:13	2
Chromium	4.0	U	4.0	2.3	ug/L		10/03/18 19:55	10/04/18 15:13	2
Cobalt	4.0	U	4.0	1.6	ug/L		10/03/18 19:55	10/04/18 15:13	2
Copper	3.3	J	4.0	2.0	ug/L		10/03/18 19:55	10/04/18 15:13	2
Iron	3570		120	51.1	ug/L		10/03/18 19:55	10/04/18 15:13	2
Lead	9.7		1.2	0.55	ug/L		10/03/18 19:55	10/04/18 15:13	2
Magnesium	137000		2000	737	ug/L		10/03/18 19:55	10/04/18 16:41	20
Manganese	645		8.0	2.9	ug/L		10/03/18 19:55	10/04/18 15:13	2
Nickel	3.0	J	4.0	2.4	ug/L		10/03/18 19:55	10/04/18 15:13	2
Potassium	52300		200	86.7	ug/L		10/03/18 19:55	10/04/18 15:13	2
Selenium	10.0	U	10.0	5.4	ug/L		10/03/18 19:55	10/04/18 15:13	2
Silver	2.0	U	2.0	0.59	ug/L		10/03/18 19:55	10/04/18 15:13	2
Sodium	1380000		2000	1280	ug/L		10/03/18 19:55	10/04/18 16:41	20
Thallium	0.80	U	0.80	0.16	ug/L		10/03/18 19:55	10/04/18 15:13	2
Vanadium	2.6	J	4.0	1.1	ug/L		10/03/18 19:55	10/04/18 15:13	2
Zinc	16.8		16.0	11.1	ug/L		10/03/18 19:55	10/04/18 15:13	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		10/04/18 11:38	10/04/18 13:43	1

Client Sample ID: FB-20180928

Date Collected: 09/28/18 10:00

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/03/18 17:35	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			10/03/18 17:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/03/18 17:35	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			10/03/18 17:35	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			10/03/18 17:35	1
1,1-Dichloroethene	1.0	U	1.0	0.12	ug/L			10/03/18 17:35	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			10/03/18 17:35	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			10/03/18 17:35	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			10/03/18 17:35	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: FB-20180928

Lab Sample ID: 460-165685-5

Date Collected: 09/28/18 10:00

Matrix: Water

Date Received: 09/28/18 20:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			10/03/18 17:35	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			10/03/18 17:35	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			10/03/18 17:35	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			10/03/18 17:35	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			10/03/18 17:35	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			10/03/18 17:35	1
1,4-Dichlorobenzene	1.0	U	1.0	0.76	ug/L			10/03/18 17:35	1
1,4-Dioxane	50	U	50	28	ug/L			10/03/18 17:35	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			10/03/18 17:35	1
2-Hexanone	5.0	U	5.0	2.9	ug/L			10/03/18 17:35	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.7	ug/L			10/03/18 17:35	1
Acetone	5.0	U	5.0	5.0	ug/L			10/03/18 17:35	1
Benzene	1.0	U	1.0	0.43	ug/L			10/03/18 17:35	1
Bromoform	1.0	U	1.0	0.54	ug/L			10/03/18 17:35	1
Bromomethane	1.0	U	1.0	1.0	ug/L			10/03/18 17:35	1
Carbon disulfide	1.0	U	1.0	0.16	ug/L			10/03/18 17:35	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			10/03/18 17:35	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			10/03/18 17:35	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			10/03/18 17:35	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			10/03/18 17:35	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/03/18 17:35	1
Chloroform	1.0	U	1.0	0.33	ug/L			10/03/18 17:35	1
Chloromethane	1.0	U	1.0	0.14	ug/L			10/03/18 17:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			10/03/18 17:35	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/03/18 17:35	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			10/03/18 17:35	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			10/03/18 17:35	1
Dichlorodifluoromethane	1.0	U	1.0	0.12	ug/L			10/03/18 17:35	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			10/03/18 17:35	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			10/03/18 17:35	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			10/03/18 17:35	1
Methyl acetate	5.0	U	5.0	0.31	ug/L			10/03/18 17:35	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			10/03/18 17:35	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			10/03/18 17:35	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			10/03/18 17:35	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			10/03/18 17:35	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			10/03/18 17:35	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			10/03/18 17:35	1
o-Xylene	1.0	U	1.0	0.36	ug/L			10/03/18 17:35	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			10/03/18 17:35	1
Styrene	1.0	U	1.0	0.42	ug/L			10/03/18 17:35	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			10/03/18 17:35	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			10/03/18 17:35	1
Toluene	1.0	U	1.0	0.38	ug/L			10/03/18 17:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/03/18 17:35	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			10/03/18 17:35	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			10/03/18 17:35	1
Trichlorofluoromethane	1.0	U	1.0	0.14	ug/L			10/03/18 17:35	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			10/03/18 17:35	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: FB-20180928

Lab Sample ID: 460-165685-5

Date Collected: 09/28/18 10:00

Matrix: Water

Date Received: 09/28/18 20:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			10/03/18 17:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		74 - 132					10/03/18 17:35	1
4-Bromofluorobenzene	95		77 - 124					10/03/18 17:35	1
Dibromofluoromethane (Surr)	111		72 - 131					10/03/18 17:35	1
Toluene-d8 (Surr)	96		80 - 120					10/03/18 17:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		09/29/18 16:20	09/30/18 21:00	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		09/29/18 16:20	09/30/18 21:00	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		09/29/18 16:20	09/30/18 21:00	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		09/29/18 16:20	09/30/18 21:00	1
2,4,5-Trichlorophenol	10	U	10	0.28	ug/L		09/29/18 16:20	09/30/18 21:00	1
2,4,6-Trichlorophenol	10	U	10	0.30	ug/L		09/29/18 16:20	09/30/18 21:00	1
2,4-Dichlorophenol	10	U	10	0.42	ug/L		09/29/18 16:20	09/30/18 21:00	1
2,4-Dimethylphenol	10	U	10	0.24	ug/L		09/29/18 16:20	09/30/18 21:00	1
2,4-Dinitrophenol	20	U	20	14	ug/L		09/29/18 16:20	09/30/18 21:00	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		09/29/18 16:20	09/30/18 21:00	1
2,6-Dinitrotoluene	2.0	U	2.0	0.39	ug/L		09/29/18 16:20	09/30/18 21:00	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		09/29/18 16:20	09/30/18 21:00	1
2-Chlorophenol	10	U	10	0.38	ug/L		09/29/18 16:20	09/30/18 21:00	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/29/18 16:20	09/30/18 21:00	1
2-Methylphenol	10	U	10	0.26	ug/L		09/29/18 16:20	09/30/18 21:00	1
2-Nitroaniline	10	U	10	0.47	ug/L		09/29/18 16:20	09/30/18 21:00	1
2-Nitrophenol	10	U	10	0.75	ug/L		09/29/18 16:20	09/30/18 21:00	1
3 & 4 Methylphenol	10	U	10	0.24	ug/L		09/29/18 16:20	09/30/18 21:00	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		09/29/18 16:20	09/30/18 21:00	1
3-Nitroaniline	10	U	10	0.96	ug/L		09/29/18 16:20	09/30/18 21:00	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		09/29/18 16:20	09/30/18 21:00	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		09/29/18 16:20	09/30/18 21:00	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		09/29/18 16:20	09/30/18 21:00	1
4-Chloroaniline	10	U	10	1.9	ug/L		09/29/18 16:20	09/30/18 21:00	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		09/29/18 16:20	09/30/18 21:00	1
4-Methylphenol	10	U	10	0.24	ug/L		09/29/18 16:20	09/30/18 21:00	1
4-Nitroaniline	10	U	10	0.54	ug/L		09/29/18 16:20	09/30/18 21:00	1
4-Nitrophenol	20	U *	20	0.69	ug/L		09/29/18 16:20	09/30/18 21:00	1
Acenaphthene	10	U	10	1.1	ug/L		09/29/18 16:20	09/30/18 21:00	1
Acenaphthylene	10	U	10	0.82	ug/L		09/29/18 16:20	09/30/18 21:00	1
Acetophenone	10	U	10	0.79	ug/L		09/29/18 16:20	09/30/18 21:00	1
Anthracene	10	U	10	0.63	ug/L		09/29/18 16:20	09/30/18 21:00	1
Atrazine	2.0	U	2.0	1.3	ug/L		09/29/18 16:20	09/30/18 21:00	1
Benzaldehyde	10	U	10	0.59	ug/L		09/29/18 16:20	09/30/18 21:00	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/29/18 16:20	09/30/18 21:00	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/29/18 16:20	09/30/18 21:00	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/29/18 16:20	09/30/18 21:00	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/29/18 16:20	09/30/18 21:00	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/29/18 16:20	09/30/18 21:00	1
Bis(2-chloroethoxy)methane	10	U	10	0.24	ug/L		09/29/18 16:20	09/30/18 21:00	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: FB-20180928

Lab Sample ID: 460-165685-5

Date Collected: 09/28/18 10:00

Matrix: Water

Date Received: 09/28/18 20:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	1.0	U	1.0	0.30	ug/L		09/29/18 16:20	09/30/18 21:00	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		09/29/18 16:20	09/30/18 21:00	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		09/29/18 16:20	09/30/18 21:00	1
Caprolactam	10	U	10	0.68	ug/L		09/29/18 16:20	09/30/18 21:00	1
Carbazole	10	U	10	0.68	ug/L		09/29/18 16:20	09/30/18 21:00	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/29/18 16:20	09/30/18 21:00	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/29/18 16:20	09/30/18 21:00	1
Dibenzofuran	10	U	10	1.1	ug/L		09/29/18 16:20	09/30/18 21:00	1
Diethyl phthalate	10	U	10	0.98	ug/L		09/29/18 16:20	09/30/18 21:00	1
Dimethyl phthalate	10	U	10	0.77	ug/L		09/29/18 16:20	09/30/18 21:00	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		09/29/18 16:20	09/30/18 21:00	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		09/29/18 16:20	09/30/18 21:00	1
Fluoranthene	10	U	10	0.84	ug/L		09/29/18 16:20	09/30/18 21:00	1
Fluorene	10	U	10	0.91	ug/L		09/29/18 16:20	09/30/18 21:00	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		09/29/18 16:20	09/30/18 21:00	1
Hexachlorobutadiene	1.0	U *	1.0	0.78	ug/L		09/29/18 16:20	09/30/18 21:00	1
Hexachlorocyclopentadiene	10	U *	10	1.7	ug/L		09/29/18 16:20	09/30/18 21:00	1
Hexachloroethane	2.0	U	2.0	1.2	ug/L		09/29/18 16:20	09/30/18 21:00	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/29/18 16:20	09/30/18 21:00	1
Isophorone	10	U	10	0.80	ug/L		09/29/18 16:20	09/30/18 21:00	1
Naphthalene	10	U	10	1.1	ug/L		09/29/18 16:20	09/30/18 21:00	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		09/29/18 16:20	09/30/18 21:00	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		09/29/18 16:20	09/30/18 21:00	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		09/29/18 16:20	09/30/18 21:00	1
Pentachlorophenol	20	U	20	1.4	ug/L		09/29/18 16:20	09/30/18 21:00	1
Phenanthrene	10	U	10	0.58	ug/L		09/29/18 16:20	09/30/18 21:00	1
Phenol	10	U	10	0.29	ug/L		09/29/18 16:20	09/30/18 21:00	1
Pyrene	10	U	10	1.6	ug/L		09/29/18 16:20	09/30/18 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		26 - 139	09/29/18 16:20	09/30/18 21:00	1
2-Fluorobiphenyl	71		45 - 107	09/29/18 16:20	09/30/18 21:00	1
2-Fluorophenol (Surr)	37		25 - 58	09/29/18 16:20	09/30/18 21:00	1
Nitrobenzene-d5 (Surr)	86		51 - 108	09/29/18 16:20	09/30/18 21:00	1
Phenol-d5 (Surr)	23		14 - 39	09/29/18 16:20	09/30/18 21:00	1
Terphenyl-d14 (Surr)	78		40 - 148	09/29/18 16:20	09/30/18 21:00	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	22.0	J	40.0	18.8	ug/L		10/03/18 19:55	10/04/18 16:32	2
Antimony	2.0	U	2.0	0.62	ug/L		10/03/18 19:55	10/04/18 16:32	2
Arsenic	2.0	U	2.0	0.73	ug/L		10/03/18 19:55	10/04/18 15:05	2
Barium	4.0	U	4.0	1.2	ug/L		10/03/18 19:55	10/04/18 15:05	2
Beryllium	0.80	U	0.80	0.25	ug/L		10/03/18 19:55	10/04/18 15:05	2
Cadmium	2.0	U	2.0	0.81	ug/L		10/03/18 19:55	10/04/18 15:05	2
Calcium	217		200	67.6	ug/L		10/03/18 19:55	10/04/18 16:32	2
Chromium	4.0	U	4.0	2.3	ug/L		10/03/18 19:55	10/04/18 15:05	2
Cobalt	4.0	U	4.0	1.6	ug/L		10/03/18 19:55	10/04/18 15:05	2
Copper	4.0	U	4.0	2.0	ug/L		10/03/18 19:55	10/04/18 15:05	2
Iron	120	U	120	51.1	ug/L		10/03/18 19:55	10/04/18 15:05	2

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: FB-20180928

Date Collected: 09/28/18 10:00

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-5

Matrix: Water

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.2	U	1.2	0.55	ug/L		10/03/18 19:55	10/04/18 15:05	2
Magnesium	200	U	200	73.7	ug/L		10/03/18 19:55	10/04/18 16:32	2
Manganese	8.0	U	8.0	2.9	ug/L		10/03/18 19:55	10/04/18 15:05	2
Nickel	4.0	U	4.0	2.4	ug/L		10/03/18 19:55	10/04/18 15:05	2
Potassium	200	U	200	86.7	ug/L		10/03/18 19:55	10/04/18 15:05	2
Selenium	10.0	U	10.0	5.4	ug/L		10/03/18 19:55	10/04/18 15:05	2
Silver	2.0	U	2.0	0.59	ug/L		10/03/18 19:55	10/04/18 15:05	2
Sodium	673		200	128	ug/L		10/03/18 19:55	10/04/18 16:32	2
Thallium	0.80	U	0.80	0.16	ug/L		10/03/18 19:55	10/04/18 15:05	2
Vanadium	4.0	U	4.0	1.1	ug/L		10/03/18 19:55	10/04/18 15:05	2
Zinc	16.0	U	16.0	11.1	ug/L		10/03/18 19:55	10/04/18 15:05	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		10/04/18 11:38	10/04/18 13:45	1

Client Sample ID: RX-4

Date Collected: 09/28/18 14:00

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/03/18 18:28	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			10/03/18 18:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/03/18 18:28	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			10/03/18 18:28	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			10/03/18 18:28	1
1,1-Dichloroethene	1.0	U	1.0	0.12	ug/L			10/03/18 18:28	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			10/03/18 18:28	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			10/03/18 18:28	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			10/03/18 18:28	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			10/03/18 18:28	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			10/03/18 18:28	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			10/03/18 18:28	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			10/03/18 18:28	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			10/03/18 18:28	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			10/03/18 18:28	1
1,4-Dichlorobenzene	1.0	U	1.0	0.76	ug/L			10/03/18 18:28	1
1,4-Dioxane	50	U	50	28	ug/L			10/03/18 18:28	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			10/03/18 18:28	1
2-Hexanone	5.0	U	5.0	2.9	ug/L			10/03/18 18:28	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.7	ug/L			10/03/18 18:28	1
Acetone	12		5.0	5.0	ug/L			10/03/18 18:28	1
Benzene	1.0	U	1.0	0.43	ug/L			10/03/18 18:28	1
Bromoform	1.0	U	1.0	0.54	ug/L			10/03/18 18:28	1
Bromomethane	1.0	U	1.0	1.0	ug/L			10/03/18 18:28	1
Carbon disulfide	1.0	U	1.0	0.16	ug/L			10/03/18 18:28	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			10/03/18 18:28	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			10/03/18 18:28	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			10/03/18 18:28	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-4

Date Collected: 09/28/18 14:00

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			10/03/18 18:28	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/03/18 18:28	1
Chloroform	1.0	U	1.0	0.33	ug/L			10/03/18 18:28	1
Chloromethane	1.0	U	1.0	0.14	ug/L			10/03/18 18:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			10/03/18 18:28	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/03/18 18:28	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			10/03/18 18:28	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			10/03/18 18:28	1
Dichlorodifluoromethane	1.0	U	1.0	0.12	ug/L			10/03/18 18:28	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			10/03/18 18:28	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			10/03/18 18:28	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			10/03/18 18:28	1
Methyl acetate	5.0	U	5.0	0.31	ug/L			10/03/18 18:28	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			10/03/18 18:28	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			10/03/18 18:28	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			10/03/18 18:28	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			10/03/18 18:28	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			10/03/18 18:28	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			10/03/18 18:28	1
o-Xylene	1.0	U	1.0	0.36	ug/L			10/03/18 18:28	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			10/03/18 18:28	1
Styrene	1.0	U	1.0	0.42	ug/L			10/03/18 18:28	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			10/03/18 18:28	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			10/03/18 18:28	1
Toluene	1.0	U	1.0	0.38	ug/L			10/03/18 18:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/03/18 18:28	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			10/03/18 18:28	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			10/03/18 18:28	1
Trichlorofluoromethane	1.0	U	1.0	0.14	ug/L			10/03/18 18:28	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			10/03/18 18:28	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			10/03/18 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		74 - 132		10/03/18 18:28	1
4-Bromofluorobenzene	94		77 - 124		10/03/18 18:28	1
Dibromofluoromethane (Surr)	111		72 - 131		10/03/18 18:28	1
Toluene-d8 (Surr)	98		80 - 120		10/03/18 18:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		09/29/18 16:20	09/30/18 21:21	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		09/29/18 16:20	09/30/18 21:21	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		09/29/18 16:20	09/30/18 21:21	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		09/29/18 16:20	09/30/18 21:21	1
2,4,5-Trichlorophenol	10	U	10	0.28	ug/L		09/29/18 16:20	09/30/18 21:21	1
2,4,6-Trichlorophenol	10	U	10	0.30	ug/L		09/29/18 16:20	09/30/18 21:21	1
2,4-Dichlorophenol	10	U	10	0.42	ug/L		09/29/18 16:20	09/30/18 21:21	1
2,4-Dimethylphenol	10	U	10	0.24	ug/L		09/29/18 16:20	09/30/18 21:21	1
2,4-Dinitrophenol	20	U	20	14	ug/L		09/29/18 16:20	09/30/18 21:21	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		09/29/18 16:20	09/30/18 21:21	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-4

Date Collected: 09/28/18 14:00

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	2.0	U	2.0	0.39	ug/L		09/29/18 16:20	09/30/18 21:21	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		09/29/18 16:20	09/30/18 21:21	1
2-Chlorophenol	10	U	10	0.38	ug/L		09/29/18 16:20	09/30/18 21:21	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/29/18 16:20	09/30/18 21:21	1
2-Methylphenol	10	U	10	0.26	ug/L		09/29/18 16:20	09/30/18 21:21	1
2-Nitroaniline	10	U	10	0.47	ug/L		09/29/18 16:20	09/30/18 21:21	1
2-Nitrophenol	10	U	10	0.75	ug/L		09/29/18 16:20	09/30/18 21:21	1
3 & 4 Methylphenol	4.1	J	10	0.24	ug/L		09/29/18 16:20	09/30/18 21:21	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		09/29/18 16:20	09/30/18 21:21	1
3-Nitroaniline	10	U	10	0.96	ug/L		09/29/18 16:20	09/30/18 21:21	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		09/29/18 16:20	09/30/18 21:21	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		09/29/18 16:20	09/30/18 21:21	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		09/29/18 16:20	09/30/18 21:21	1
4-Chloroaniline	10	U	10	1.9	ug/L		09/29/18 16:20	09/30/18 21:21	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		09/29/18 16:20	09/30/18 21:21	1
4-Methylphenol	4.1	J	10	0.24	ug/L		09/29/18 16:20	09/30/18 21:21	1
4-Nitroaniline	10	U	10	0.54	ug/L		09/29/18 16:20	09/30/18 21:21	1
4-Nitrophenol	20	U *	20	0.69	ug/L		09/29/18 16:20	09/30/18 21:21	1
Acenaphthene	10	U	10	1.1	ug/L		09/29/18 16:20	09/30/18 21:21	1
Acenaphthylene	10	U	10	0.82	ug/L		09/29/18 16:20	09/30/18 21:21	1
Acetophenone	10	U	10	0.79	ug/L		09/29/18 16:20	09/30/18 21:21	1
Anthracene	2.8	J	10	0.63	ug/L		09/29/18 16:20	09/30/18 21:21	1
Atrazine	2.0	U	2.0	1.3	ug/L		09/29/18 16:20	09/30/18 21:21	1
Benzaldehyde	10	U	10	0.59	ug/L		09/29/18 16:20	09/30/18 21:21	1
Benzo[a]anthracene	6.7		1.0	0.59	ug/L		09/29/18 16:20	09/30/18 21:21	1
Benzo[a]pyrene	6.2		1.0	0.41	ug/L		09/29/18 16:20	09/30/18 21:21	1
Benzo[b]fluoranthene	8.0		2.0	1.1	ug/L		09/29/18 16:20	09/30/18 21:21	1
Benzo[g,h,i]perylene	3.5	J	10	1.4	ug/L		09/29/18 16:20	09/30/18 21:21	1
Benzo[k]fluoranthene	3.1		1.0	0.67	ug/L		09/29/18 16:20	09/30/18 21:21	1
Bis(2-chloroethoxy)methane	10	U	10	0.24	ug/L		09/29/18 16:20	09/30/18 21:21	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.30	ug/L		09/29/18 16:20	09/30/18 21:21	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		09/29/18 16:20	09/30/18 21:21	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		09/29/18 16:20	09/30/18 21:21	1
Caprolactam	10	U	10	0.68	ug/L		09/29/18 16:20	09/30/18 21:21	1
Carbazole	5.0	J	10	0.68	ug/L		09/29/18 16:20	09/30/18 21:21	1
Chrysene	6.3		2.0	0.91	ug/L		09/29/18 16:20	09/30/18 21:21	1
Dibenz(a,h)anthracene	0.74	J	1.0	0.72	ug/L		09/29/18 16:20	09/30/18 21:21	1
Dibenzofuran	10	U	10	1.1	ug/L		09/29/18 16:20	09/30/18 21:21	1
Diethyl phthalate	10	U	10	0.98	ug/L		09/29/18 16:20	09/30/18 21:21	1
Dimethyl phthalate	10	U	10	0.77	ug/L		09/29/18 16:20	09/30/18 21:21	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		09/29/18 16:20	09/30/18 21:21	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		09/29/18 16:20	09/30/18 21:21	1
Fluoranthene	13		10	0.84	ug/L		09/29/18 16:20	09/30/18 21:21	1
Fluorene	1.3	J	10	0.91	ug/L		09/29/18 16:20	09/30/18 21:21	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		09/29/18 16:20	09/30/18 21:21	1
Hexachlorobutadiene	1.0	U *	1.0	0.78	ug/L		09/29/18 16:20	09/30/18 21:21	1
Hexachlorocyclopentadiene	10	U *	10	1.7	ug/L		09/29/18 16:20	09/30/18 21:21	1
Hexachloroethane	2.0	U	2.0	1.2	ug/L		09/29/18 16:20	09/30/18 21:21	1
Indeno[1,2,3-cd]pyrene	3.7		2.0	1.3	ug/L		09/29/18 16:20	09/30/18 21:21	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-4

Date Collected: 09/28/18 14:00

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	10	U	10	0.80	ug/L		09/29/18 16:20	09/30/18 21:21	1
Naphthalene	3.4	J	10	1.1	ug/L		09/29/18 16:20	09/30/18 21:21	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		09/29/18 16:20	09/30/18 21:21	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		09/29/18 16:20	09/30/18 21:21	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		09/29/18 16:20	09/30/18 21:21	1
Pentachlorophenol	20	U	20	1.4	ug/L		09/29/18 16:20	09/30/18 21:21	1
Phenanthrene	9.9	J	10	0.58	ug/L		09/29/18 16:20	09/30/18 21:21	1
Phenol	2.3	J	10	0.29	ug/L		09/29/18 16:20	09/30/18 21:21	1
Pyrene	13		10	1.6	ug/L		09/29/18 16:20	09/30/18 21:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		26 - 139	09/29/18 16:20	09/30/18 21:21	1
2-Fluorobiphenyl	52		45 - 107	09/29/18 16:20	09/30/18 21:21	1
2-Fluorophenol (Surr)	29		25 - 58	09/29/18 16:20	09/30/18 21:21	1
Nitrobenzene-d5 (Surr)	64		51 - 108	09/29/18 16:20	09/30/18 21:21	1
Phenol-d5 (Surr)	20		14 - 39	09/29/18 16:20	09/30/18 21:21	1
Terphenyl-d14 (Surr)	64		40 - 148	09/29/18 16:20	09/30/18 21:21	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	972		400	188	ug/L		10/03/18 19:55	10/04/18 16:44	20
Antimony	3.8		2.0	0.62	ug/L		10/03/18 19:55	10/04/18 15:16	2
Arsenic	3.5		2.0	0.73	ug/L		10/03/18 19:55	10/04/18 15:16	2
Barium	240		4.0	1.2	ug/L		10/03/18 19:55	10/04/18 15:16	2
Beryllium	0.80	U	0.80	0.25	ug/L		10/03/18 19:55	10/04/18 15:16	2
Cadmium	2.0	U	2.0	0.81	ug/L		10/03/18 19:55	10/04/18 15:16	2
Calcium	122000		200	67.6	ug/L		10/03/18 19:55	10/04/18 15:16	2
Chromium	2.6	J	4.0	2.3	ug/L		10/03/18 19:55	10/04/18 15:16	2
Cobalt	2.2	J	4.0	1.6	ug/L		10/03/18 19:55	10/04/18 15:16	2
Copper	7.1		4.0	2.0	ug/L		10/03/18 19:55	10/04/18 15:16	2
Iron	1600		120	51.1	ug/L		10/03/18 19:55	10/04/18 15:16	2
Lead	67.2		1.2	0.55	ug/L		10/03/18 19:55	10/04/18 15:16	2
Magnesium	40300		2000	737	ug/L		10/03/18 19:55	10/04/18 16:44	20
Manganese	679		8.0	2.9	ug/L		10/03/18 19:55	10/04/18 15:16	2
Nickel	7.1		4.0	2.4	ug/L		10/03/18 19:55	10/04/18 15:16	2
Potassium	74900		200	86.7	ug/L		10/03/18 19:55	10/04/18 15:16	2
Selenium	10.0	U	10.0	5.4	ug/L		10/03/18 19:55	10/04/18 15:16	2
Silver	2.0	U	2.0	0.59	ug/L		10/03/18 19:55	10/04/18 15:16	2
Sodium	1290000		2000	1280	ug/L		10/03/18 19:55	10/04/18 16:44	20
Thallium	0.80	U	0.80	0.16	ug/L		10/03/18 19:55	10/04/18 15:16	2
Vanadium	10.1		4.0	1.1	ug/L		10/03/18 19:55	10/04/18 15:16	2
Zinc	78.5		16.0	11.1	ug/L		10/03/18 19:55	10/04/18 15:16	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		10/04/18 11:38	10/04/18 13:47	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-4_0.5-2.5

Date Collected: 09/28/18 14:15

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-7

Matrix: Solid

Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.11	U	0.11	0.030	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
1,1,2,2-Tetrachloroethane	0.11	U	0.11	0.021	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.11	U	0.11	0.037	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
1,1,2-Trichloroethane	0.11	U	0.11	0.0086	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
1,1-Dichloroethane	0.11	U	0.11	0.026	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
1,1-Dichloroethene	0.11	U	0.11	0.037	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
1,2,3-Trichlorobenzene	0.11	U	0.11	0.038	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
1,2,4-Trichlorobenzene	0.11	U	0.11	0.029	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
1,2,4-Trimethylbenzene	0.33		0.11	0.025	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
1,2-Dibromo-3-Chloropropane	0.11	U	0.11	0.025	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
1,2-Dichlorobenzene	0.11	U	0.11	0.024	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
1,2-Dichloroethane	0.11	U *	0.11	0.027	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
1,2-Dichloropropane	0.11	U	0.11	0.019	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
1,3,5-Trimethylbenzene	0.13		0.11	0.027	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
1,3-Dichlorobenzene	0.11	U	0.11	0.036	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
1,4-Dichlorobenzene	0.11	U	0.11	0.036	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
1,4-Dioxane	5.4	U	5.4	0.94	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
2-Butanone (MEK)	0.54	U	0.54	0.24	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
2-Hexanone	0.54	U	0.54	0.078	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
4-Methyl-2-pentanone (MIBK)	0.54	U	0.54	0.068	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Acetone	0.54	U	0.54	0.12	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Benzene	0.23		0.11	0.021	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Bromoform	0.11	U	0.11	0.019	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Bromomethane	0.11	U	0.11	0.019	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Carbon disulfide	0.11	U	0.11	0.024	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Carbon tetrachloride	0.11	U	0.11	0.036	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Chlorobenzene	0.11	U	0.11	0.026	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Chlorobromomethane	0.11	U	0.11	0.032	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Chlorodibromomethane	0.11	U	0.11	0.024	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Chloroethane	0.11	U	0.11	0.040	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Chloroform	0.11	U	0.11	0.024	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Chloromethane	0.11	U	0.11	0.024	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
cis-1,2-Dichloroethene	0.039	J	0.11	0.028	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
cis-1,3-Dichloropropene	0.11	U	0.11	0.017	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Cyclohexane	0.093	J	0.11	0.028	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Dichlorobromomethane	0.11	U	0.11	0.016	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Dichlorodifluoromethane	0.11	U	0.11	0.015	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Ethylbenzene	0.38		0.11	0.032	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Ethylene Dibromide	0.11	U	0.11	0.021	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Isopropylbenzene	0.067	J	0.11	0.035	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Methyl acetate	0.54	U	0.54	0.063	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Methyl tert-butyl ether	0.11	U	0.11	0.014	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Methylcyclohexane	0.85		0.11	0.024	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Methylene Chloride	0.11	U	0.11	0.023	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
m-Xylene & p-Xylene	0.61		0.11	0.030	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
n-Butylbenzene	0.23		0.11	0.029	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
N-Propylbenzene	0.22		0.11	0.031	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
o-Xylene	0.14		0.11	0.035	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
sec-Butylbenzene	0.12		0.11	0.033	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-4_0.5-2.5

Lab Sample ID: 460-165685-7

Date Collected: 09/28/18 14:15

Matrix: Solid

Date Received: 09/28/18 20:00

Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.11	U	0.11	0.018	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
tert-Butylbenzene	0.11	U	0.11	0.030	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Tetrachloroethene	0.11	U	0.11	0.039	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Toluene	0.36		0.11	0.027	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
trans-1,2-Dichloroethene	0.11	U	0.11	0.019	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
trans-1,3-Dichloropropene	0.11	U	0.11	0.021	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Trichloroethene	0.11	U	0.11	0.024	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Trichlorofluoromethane	0.11	U *	0.11	0.016	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Vinyl chloride	0.11	U	0.11	0.022	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50
Xylenes, Total	0.75		0.22	0.030	mg/Kg	☼	09/29/18 23:09	10/04/18 12:24	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		69 - 143	09/29/18 23:09	10/04/18 12:24	50
4-Bromofluorobenzene	90		61 - 137	09/29/18 23:09	10/04/18 12:24	50
Dibromofluoromethane (Surr)	86		61 - 135	09/29/18 23:09	10/04/18 12:24	50
Toluene-d8 (Surr)	98		67 - 127	09/29/18 23:09	10/04/18 12:24	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.064	J	0.74	0.0098	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
1,2,4,5-Tetrachlorobenzene	0.74	U	0.74	0.0097	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
2,2'-oxybis[1-chloropropane]	0.74	U	0.74	0.013	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
2,3,4,6-Tetrachlorophenol	0.74	U	0.74	0.050	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
2,4,5-Trichlorophenol	0.74	U	0.74	0.024	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
2,4,6-Trichlorophenol	0.30	U	0.30	0.037	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
2,4-Dichlorophenol	0.30	U	0.30	0.016	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
2,4-Dimethylphenol	0.74	U	0.74	0.033	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
2,4-Dinitrophenol	0.60	U	0.60	0.36	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
2,4-Dinitrotoluene	0.15	U	0.15	0.038	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
2,6-Dinitrotoluene	0.15	U	0.15	0.024	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
2-Chloronaphthalene	0.74	U	0.74	0.034	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
2-Chlorophenol	0.74	U	0.74	0.010	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
2-Methylnaphthalene	1.3		0.74	0.0093	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
2-Methylphenol	0.74	U	0.74	0.012	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
2-Nitroaniline	0.74	U	0.74	0.028	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
2-Nitrophenol	0.74	U	0.74	0.024	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
3 & 4 Methylphenol	0.033	J	0.74	0.013	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
3,3'-Dichlorobenzidine	0.30	U	0.30	0.11	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
3-Nitroaniline	0.74	U	0.74	0.040	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
4,6-Dinitro-2-methylphenol	0.60	U	0.60	0.12	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
4-Bromophenyl phenyl ether	0.74	U	0.74	0.0096	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
4-Chloro-3-methylphenol	0.74	U	0.74	0.012	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
4-Chloroaniline	0.74	U	0.74	0.052	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
4-Chlorophenyl phenyl ether	0.74	U	0.74	0.012	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
4-Methylphenol	0.033	J	0.74	0.013	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
4-Nitroaniline	0.74	U	0.74	0.028	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
4-Nitrophenol	1.5	U	1.5	0.12	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Acenaphthene	0.14	J	0.74	0.054	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Acenaphthylene	0.083	J	0.74	0.0077	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Acetophenone	0.74	U	0.74	0.012	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2

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TestAmerica Job ID: 460-165685-1

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Lab Sample ID: 460-165685-7

Date Collected: 09/28/18 14:15

Matrix: Solid

Date Received: 09/28/18 20:00

Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.20	J	0.74	0.0083	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Atrazine	0.30	U	0.30	0.019	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Benzaldehyde	0.74	U	0.74	0.032	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Benzo[a]anthracene	0.46		0.074	0.026	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Benzo[a]pyrene	0.47		0.074	0.020	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Benzo[b]fluoranthene	0.83		0.074	0.019	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Benzo[g,h,i]perylene	0.28	J	0.74	0.022	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Benzo[k]fluoranthene	0.26		0.074	0.015	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Bis(2-chloroethoxy)methane	0.74	U	0.74	0.025	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Bis(2-chloroethyl)ether	0.074	U *	0.074	0.0090	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Bis(2-ethylhexyl) phthalate	1.2		0.74	0.039	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Butyl benzyl phthalate	0.12	J	0.74	0.035	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Caprolactam	0.74	U	0.74	0.044	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Carbazole	0.084	J	0.74	0.0087	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Chrysene	0.53	J	0.74	0.013	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Dibenz(a,h)anthracene	0.070	J	0.074	0.032	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Dibenzofuran	0.13	J	0.74	0.010	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Diethyl phthalate	0.036	J	0.74	0.011	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Dimethyl phthalate	0.74	U	0.74	0.0089	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Di-n-butyl phthalate	0.31	J	0.74	0.13	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Di-n-octyl phthalate	0.74	U	0.74	0.039	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Fluoranthene	0.94		0.74	0.0096	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Fluorene	0.25	J	0.74	0.010	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Hexachlorobenzene	0.074	U	0.074	0.011	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Hexachlorobutadiene	0.15	U	0.15	0.016	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Hexachlorocyclopentadiene	0.74	U	0.74	0.065	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Hexachloroethane	0.074	U *	0.074	0.011	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Indeno[1,2,3-cd]pyrene	0.28		0.074	0.029	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Isophorone	0.30	U	0.30	0.020	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Naphthalene	0.71	J	0.74	0.013	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Nitrobenzene	0.074	U *	0.074	0.018	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
N-Nitrosodi-n-propylamine	0.074	U	0.074	0.012	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
N-Nitrosodiphenylamine	0.74	U	0.74	0.014	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Pentachlorophenol	0.60	U	0.60	0.15	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Phenanthrene	1.0		0.74	0.013	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Phenol	0.74	U	0.74	0.011	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2
Pyrene	1.3		0.74	0.018	mg/Kg	☼	09/29/18 16:09	10/02/18 13:31	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		10 - 103	09/29/18 16:09	10/02/18 13:31	2
2-Fluorobiphenyl	61		38 - 95	09/29/18 16:09	10/02/18 13:31	2
2-Fluorophenol (Surr)	68		25 - 92	09/29/18 16:09	10/02/18 13:31	2
Nitrobenzene-d5 (Surr)	59		37 - 94	09/29/18 16:09	10/02/18 13:31	2
Phenol-d5 (Surr)	66		32 - 91	09/29/18 16:09	10/02/18 13:31	2
Terphenyl-d14 (Surr)	48		24 - 109	09/29/18 16:09	10/02/18 13:31	2

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9650		22.2	7.6	mg/Kg	☼	10/03/18 19:17	10/04/18 12:43	20
Antimony	8.1		1.1	0.33	mg/Kg	☼	10/03/18 19:17	10/04/18 12:43	20

TestAmerica Edison

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Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

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Date Collected: 09/28/18 14:15

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-7

Matrix: Solid

Percent Solids: 89.0

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13.1		1.1	0.36	mg/Kg	☼	10/03/18 19:17	10/04/18 12:43	20
Barium	967		2.2	0.74	mg/Kg	☼	10/03/18 19:17	10/04/18 12:43	20
Beryllium	0.29	J	0.44	0.18	mg/Kg	☼	10/03/18 19:17	10/04/18 12:43	20
Cadmium	21.0		1.1	0.37	mg/Kg	☼	10/03/18 19:17	10/04/18 12:43	20
Calcium	15400		111	33.0	mg/Kg	☼	10/03/18 19:17	10/04/18 12:43	20
Chromium	42.8		2.2	0.67	mg/Kg	☼	10/03/18 19:17	10/04/18 12:43	20
Cobalt	10.4		2.2	0.67	mg/Kg	☼	10/03/18 19:17	10/04/18 12:43	20
Copper	520		2.2	0.64	mg/Kg	☼	10/03/18 19:17	10/04/18 12:43	20
Iron	41100		66.7	23.4	mg/Kg	☼	10/03/18 19:17	10/04/18 12:43	20
Lead	1790		0.67	0.21	mg/Kg	☼	10/03/18 19:17	10/04/18 12:43	20
Magnesium	9160		111	30.9	mg/Kg	☼	10/03/18 19:17	10/04/18 12:43	20
Manganese	411		4.4	1.4	mg/Kg	☼	10/03/18 19:17	10/04/18 12:43	20
Nickel	164		2.2	0.72	mg/Kg	☼	10/03/18 19:17	10/04/18 12:43	20
Potassium	1730		111	40.0	mg/Kg	☼	10/03/18 19:17	10/04/18 12:43	20
Selenium	1.6	J	5.6	0.32	mg/Kg	☼	10/03/18 19:17	10/04/18 12:43	20
Silver	1.0	J	1.1	0.69	mg/Kg	☼	10/03/18 19:17	10/04/18 12:43	20
Sodium	521		111	34.8	mg/Kg	☼	10/03/18 19:17	10/04/18 12:43	20
Thallium	0.19	J	0.44	0.14	mg/Kg	☼	10/03/18 19:17	10/04/18 12:43	20
Vanadium	46.1		2.2	0.63	mg/Kg	☼	10/03/18 19:17	10/04/18 12:43	20
Zinc	19200		222	108	mg/Kg	☼	10/03/18 19:17	10/04/18 13:12	500

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50		0.018	0.011	mg/Kg	☼	10/03/18 04:31	10/03/18 10:25	1

Client Sample ID: RX-4_9.5-11.5

Date Collected: 09/28/18 14:30

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-8

Matrix: Solid

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00092	U	0.00092	0.00021	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
1,1,2,2-Tetrachloroethane	0.00092	U	0.00092	0.00020	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00092	U	0.00092	0.00028	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
1,1,2-Trichloroethane	0.00092	U	0.00092	0.00016	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
1,1-Dichloroethane	0.00092	U	0.00092	0.00019	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
1,1-Dichloroethene	0.00092	U	0.00092	0.00021	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
1,2,3-Trichlorobenzene	0.00092	U	0.00092	0.00017	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
1,2,4-Trichlorobenzene	0.00092	U	0.00092	0.000085	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
1,2,4-Trimethylbenzene	0.00092	U	0.00092	0.000087	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
1,2-Dibromo-3-Chloropropane	0.00092	U	0.00092	0.00042	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
1,2-Dichlorobenzene	0.00092	U	0.00092	0.00013	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
1,2-Dichloroethane	0.00092	U	0.00092	0.00027	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
1,2-Dichloropropane	0.00092	U	0.00092	0.00039	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
1,3,5-Trimethylbenzene	0.00092	U	0.00092	0.00011	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
1,3-Dichlorobenzene	0.00092	U	0.00092	0.00015	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
1,4-Dichlorobenzene	0.00092	U	0.00092	0.000092	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
1,4-Dioxane	0.018	U	0.018	0.0085	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
2-Butanone (MEK)	0.0027	J	0.0046	0.0010	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
2-Hexanone	0.0046	U	0.0046	0.00072	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1

TestAmerica Edison

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Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-4_9.5-11.5

Date Collected: 09/28/18 14:30

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-8

Matrix: Solid

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	0.0046	U	0.0046	0.00061	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Acetone	0.011		0.0046	0.0035	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Benzene	0.00092	U	0.00092	0.00024	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Bromoform	0.00092	U	0.00092	0.00039	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Bromomethane	0.00092	U	0.00092	0.00044	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Carbon disulfide	0.00072	J	0.00092	0.00025	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Carbon tetrachloride	0.00092	U	0.00092	0.00017	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Chlorobenzene	0.00092	U	0.00092	0.00016	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Chlorobromomethane	0.00092	U	0.00092	0.00026	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Chlorodibromomethane	0.00092	U	0.00092	0.00018	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Chloroethane	0.00092	U	0.00092	0.00048	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Chloroform	0.00092	U	0.00092	0.00029	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Chloromethane	0.00092	U	0.00092	0.00040	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
cis-1,2-Dichloroethene	0.00092	U	0.00092	0.00014	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
cis-1,3-Dichloropropene	0.00092	U	0.00092	0.00025	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Cyclohexane	0.00092	U	0.00092	0.00020	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Dichlorobromomethane	0.00092	U	0.00092	0.00024	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Dichlorodifluoromethane	0.00092	U	0.00092	0.00031	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Ethylbenzene	0.00092	U	0.00092	0.00018	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Ethylene Dibromide	0.00092	U	0.00092	0.00017	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Isopropylbenzene	0.00092	U	0.00092	0.00012	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Methyl acetate	0.0046	U	0.0046	0.0040	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Methyl tert-butyl ether	0.00092	U	0.00092	0.00012	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Methylcyclohexane	0.00092	U	0.00092	0.00015	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Methylene Chloride	0.00092	U	0.00092	0.00015	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
m-Xylene & p-Xylene	0.00092	U	0.00092	0.00016	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
n-Butylbenzene	0.00092	U	0.00092	0.00013	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
N-Propylbenzene	0.00092	U	0.00092	0.00016	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
o-Xylene	0.00092	U	0.00092	0.000088	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
sec-Butylbenzene	0.00092	U	0.00092	0.000081	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Styrene	0.00092	U	0.00092	0.00011	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
tert-Butylbenzene	0.00092	U	0.00092	0.00011	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Tetrachloroethene	0.00092	U	0.00092	0.00013	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Toluene	0.00092	U	0.00092	0.00058	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
trans-1,2-Dichloroethene	0.00092	U	0.00092	0.00023	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
trans-1,3-Dichloropropene	0.00092	U	0.00092	0.00025	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Trichloroethene	0.00018	J B	0.00092	0.00013	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Trichlorofluoromethane	0.00092	U	0.00092	0.00037	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Vinyl chloride	0.00092	U	0.00092	0.00050	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1
Xylenes, Total	0.0018	U	0.0018	0.00023	mg/Kg	☼	09/29/18 23:20	10/02/18 01:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		78 - 135	09/29/18 23:20	10/02/18 01:38	1
4-Bromofluorobenzene	107		67 - 126	09/29/18 23:20	10/02/18 01:38	1
Dibromofluoromethane (Surr)	113		61 - 149	09/29/18 23:20	10/02/18 01:38	1
Toluene-d8 (Surr)	93		73 - 121	09/29/18 23:20	10/02/18 01:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.38	U	0.38	0.0050	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-4_9.5-11.5

Lab Sample ID: 460-165685-8

Date Collected: 09/28/18 14:30

Matrix: Solid

Date Received: 09/28/18 20:00

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	0.38	U	0.38	0.0050	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
2,2'-oxybis[1-chloropropane]	0.38	U	0.38	0.0069	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
2,3,4,6-Tetrachlorophenol	0.38	U	0.38	0.026	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
2,4,5-Trichlorophenol	0.38	U	0.38	0.013	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.019	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
2,4-Dichlorophenol	0.15	U	0.15	0.0080	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
2,4-Dimethylphenol	0.38	U	0.38	0.017	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
2,4-Dinitrophenol	0.31	U	0.31	0.19	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
2,4-Dinitrotoluene	0.077	U	0.077	0.019	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
2,6-Dinitrotoluene	0.077	U	0.077	0.012	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
2-Chloronaphthalene	0.38	U	0.38	0.018	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
2-Chlorophenol	0.38	U	0.38	0.0053	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
2-Methylnaphthalene	0.38	U	0.38	0.0047	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
2-Methylphenol	0.38	U	0.38	0.0061	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
2-Nitroaniline	0.38	U	0.38	0.014	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
2-Nitrophenol	0.38	U	0.38	0.012	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
3 & 4 Methylphenol	0.38	U	0.38	0.0065	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.057	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
3-Nitroaniline	0.38	U	0.38	0.021	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
4,6-Dinitro-2-methylphenol	0.31	U	0.31	0.062	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
4-Bromophenyl phenyl ether	0.38	U	0.38	0.0049	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
4-Chloro-3-methylphenol	0.38	U	0.38	0.0063	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
4-Chloroaniline	0.38	U	0.38	0.027	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
4-Chlorophenyl phenyl ether	0.38	U	0.38	0.0060	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
4-Methylphenol	0.38	U	0.38	0.0065	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
4-Nitroaniline	0.38	U	0.38	0.014	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
4-Nitrophenol	0.77	U	0.77	0.062	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Acenaphthene	0.38	U	0.38	0.028	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Acenaphthylene	0.014	J	0.38	0.0039	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Acetophenone	0.38	U	0.38	0.0061	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Anthracene	0.029	J	0.38	0.0043	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Atrazine	0.15	U	0.15	0.0096	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Benzaldehyde	0.38	U	0.38	0.017	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Benzo[a]anthracene	0.030	J	0.038	0.013	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Benzo[a]pyrene	0.025	J	0.038	0.010	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Benzo[b]fluoranthene	0.043	J	0.038	0.0098	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Benzo[g,h,i]perylene	0.38	U	0.38	0.011	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Benzo[k]fluoranthene	0.016	J	0.038	0.0075	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Bis(2-chloroethoxy)methane	0.38	U	0.38	0.013	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Bis(2-chloroethyl)ether	0.038	U *	0.038	0.0046	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Bis(2-ethylhexyl) phthalate	0.38	U	0.38	0.020	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Butyl benzyl phthalate	0.38	U	0.38	0.018	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Caprolactam	0.38	U	0.38	0.023	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Carbazole	0.38	U	0.38	0.0044	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Chrysene	0.031	J	0.38	0.0064	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Dibenz(a,h)anthracene	0.038	U	0.038	0.016	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Dibenzofuran	0.38	U	0.38	0.0053	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Diethyl phthalate	0.38	U	0.38	0.0055	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Dimethyl phthalate	0.38	U	0.38	0.0046	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-4_9.5-11.5

Lab Sample ID: 460-165685-8

Date Collected: 09/28/18 14:30

Matrix: Solid

Date Received: 09/28/18 20:00

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	0.38	U	0.38	0.067	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Di-n-octyl phthalate	0.38	U	0.38	0.020	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Fluoranthene	0.057	J	0.38	0.0049	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Fluorene	0.38	U	0.38	0.0052	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Hexachlorobenzene	0.038	U	0.038	0.0056	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Hexachlorobutadiene	0.077	U	0.077	0.0081	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Hexachlorocyclopentadiene	0.38	U	0.38	0.033	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Hexachloroethane	0.038	U *	0.038	0.0059	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Indeno[1,2,3-cd]pyrene	0.021	J	0.038	0.015	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Isophorone	0.15	U	0.15	0.010	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Naphthalene	0.38	U	0.38	0.0066	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Nitrobenzene	0.038	U *	0.038	0.0091	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
N-Nitrosodi-n-propylamine	0.038	U	0.038	0.0061	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
N-Nitrosodiphenylamine	0.38	U	0.38	0.0073	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Pentachlorophenol	0.31	U	0.31	0.078	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Phenanthrene	0.038	J	0.38	0.0067	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Phenol	0.38	U	0.38	0.0056	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1
Pyrene	0.046	J	0.38	0.0095	mg/Kg	☼	09/29/18 16:09	10/01/18 09:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	71		10 - 103	09/29/18 16:09	10/01/18 09:43	1
2-Fluorobiphenyl	59		38 - 95	09/29/18 16:09	10/01/18 09:43	1
2-Fluorophenol (Surr)	52		25 - 92	09/29/18 16:09	10/01/18 09:43	1
Nitrobenzene-d5 (Surr)	53		37 - 94	09/29/18 16:09	10/01/18 09:43	1
Phenol-d5 (Surr)	51		32 - 91	09/29/18 16:09	10/01/18 09:43	1
Terphenyl-d14 (Surr)	63		24 - 109	09/29/18 16:09	10/01/18 09:43	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11500		19.5	6.7	mg/Kg	☼	10/03/18 19:17	10/04/18 12:51	20
Antimony	0.98	U	0.98	0.29	mg/Kg	☼	10/03/18 19:17	10/04/18 12:51	20
Arsenic	2.2		0.98	0.31	mg/Kg	☼	10/03/18 19:17	10/04/18 12:51	20
Barium	36.7		2.0	0.65	mg/Kg	☼	10/03/18 19:17	10/04/18 12:51	20
Beryllium	0.51		0.39	0.16	mg/Kg	☼	10/03/18 19:17	10/04/18 12:51	20
Cadmium	0.98	U	0.98	0.33	mg/Kg	☼	10/03/18 19:17	10/04/18 12:51	20
Calcium	112000		97.6	29.0	mg/Kg	☼	10/03/18 19:17	10/04/18 12:51	20
Chromium	15.0		2.0	0.59	mg/Kg	☼	10/03/18 19:17	10/04/18 12:51	20
Cobalt	5.8		2.0	0.59	mg/Kg	☼	10/03/18 19:17	10/04/18 12:51	20
Copper	10.6		2.0	0.56	mg/Kg	☼	10/03/18 19:17	10/04/18 12:51	20
Iron	14500		58.5	20.5	mg/Kg	☼	10/03/18 19:17	10/04/18 12:51	20
Lead	13.1		0.59	0.18	mg/Kg	☼	10/03/18 19:17	10/04/18 12:51	20
Magnesium	63300		97.6	27.1	mg/Kg	☼	10/03/18 19:17	10/04/18 12:51	20
Manganese	240		3.9	1.2	mg/Kg	☼	10/03/18 19:17	10/04/18 12:51	20
Nickel	11.0		2.0	0.64	mg/Kg	☼	10/03/18 19:17	10/04/18 12:51	20
Potassium	6720		97.6	35.1	mg/Kg	☼	10/03/18 19:17	10/04/18 12:51	20
Selenium	4.9	U	4.9	0.28	mg/Kg	☼	10/03/18 19:17	10/04/18 12:51	20
Silver	0.98	U	0.98	0.60	mg/Kg	☼	10/03/18 19:17	10/04/18 12:51	20
Sodium	961		97.6	30.5	mg/Kg	☼	10/03/18 19:17	10/04/18 12:51	20
Thallium	0.13	J	0.39	0.12	mg/Kg	☼	10/03/18 19:17	10/04/18 12:51	20
Vanadium	19.1		2.0	0.56	mg/Kg	☼	10/03/18 19:17	10/04/18 12:51	20

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-4_9.5-11.5

Date Collected: 09/28/18 14:30

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-8

Matrix: Solid

Percent Solids: 86.8

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	92.3		7.8	3.8	mg/Kg	☼	10/03/18 19:17	10/04/18 12:51	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.019	0.011	mg/Kg	☼	10/03/18 04:31	10/03/18 10:26	1

Client Sample ID: RX-7_0.5-2.5

Date Collected: 09/28/18 14:45

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-9

Matrix: Solid

Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00024	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00022	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00031	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00019	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.000095	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
1,2,4-Trimethylbenzene	0.00050	J	0.0010	0.000097	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00048	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00015	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00031	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00044	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
1,3,5-Trimethylbenzene	0.00046	J	0.0010	0.00012	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00016	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00010	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
1,4-Dioxane	0.021	U	0.021	0.0095	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
2-Butanone (MEK)	0.0052	U	0.0052	0.0012	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
2-Hexanone	0.0052	U	0.0052	0.00081	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
4-Methyl-2-pentanone (MIBK)	0.0052	U	0.0052	0.00069	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Acetone	0.017		0.0052	0.0039	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Benzene	0.0010	U	0.0010	0.00027	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Bromoform	0.0010	U	0.0010	0.00044	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Bromomethane	0.0010	U	0.0010	0.00049	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Carbon disulfide	0.00061	J	0.0010	0.00028	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Carbon tetrachloride	0.0010	U	0.0010	0.00019	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Chlorobromomethane	0.0010	U	0.0010	0.00029	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Chlorodibromomethane	0.0010	U	0.0010	0.00020	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Chloroethane	0.0010	U	0.0010	0.00054	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Chloroform	0.0010	U	0.0010	0.00033	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Chloromethane	0.0010	U	0.0010	0.00045	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00016	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00028	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Cyclohexane	0.0010	U	0.0010	0.00023	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Dichlorobromomethane	0.0010	U	0.0010	0.00027	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00035	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Ethylbenzene	0.0010	U	0.0010	0.00021	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-7_0.5-2.5

Date Collected: 09/28/18 14:45

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-9

Matrix: Solid

Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	0.0010	U	0.0010	0.00019	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Isopropylbenzene	0.0010	U	0.0010	0.00013	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Methyl acetate	0.0052	U	0.0052	0.0045	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00013	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Methylcyclohexane	0.0010	U	0.0010	0.00017	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Methylene Chloride	0.00026	J B	0.0010	0.00017	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
m-Xylene & p-Xylene	0.00021	J	0.0010	0.00018	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
n-Butylbenzene	0.0010	U	0.0010	0.00015	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
N-Propylbenzene	0.0010	U	0.0010	0.00018	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
o-Xylene	0.00016	J	0.0010	0.000098	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
sec-Butylbenzene	0.000093	J	0.0010	0.000091	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Styrene	0.0010	U	0.0010	0.00013	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
tert-Butylbenzene	0.0010	U	0.0010	0.00013	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Tetrachloroethene	0.00016	J	0.0010	0.00015	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Toluene	0.0010	U	0.0010	0.00065	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00028	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Trichloroethene	0.0010	U	0.0010	0.00015	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00042	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Vinyl chloride	0.0010	U	0.0010	0.00057	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1
Xylenes, Total	0.00038	J	0.0021	0.00026	mg/Kg	☼	09/29/18 23:21	10/01/18 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		78 - 135	09/29/18 23:21	10/01/18 14:56	1
4-Bromofluorobenzene	107		67 - 126	09/29/18 23:21	10/01/18 14:56	1
Dibromofluoromethane (Surr)	111		61 - 149	09/29/18 23:21	10/01/18 14:56	1
Toluene-d8 (Surr)	94		73 - 121	09/29/18 23:21	10/01/18 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.37	U	0.37	0.0049	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
1,2,4,5-Tetrachlorobenzene	0.37	U	0.37	0.0049	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
2,2'-oxybis[1-chloropropane]	0.37	U	0.37	0.0067	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
2,3,4,6-Tetrachlorophenol	0.37	U	0.37	0.025	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
2,4,5-Trichlorophenol	0.37	U	0.37	0.012	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.019	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
2,4-Dichlorophenol	0.15	U	0.15	0.0078	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
2,4-Dimethylphenol	0.37	U	0.37	0.016	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
2,4-Dinitrophenol	0.30	U	0.30	0.18	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
2,4-Dinitrotoluene	0.075	U	0.075	0.019	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
2,6-Dinitrotoluene	0.075	U	0.075	0.012	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
2-Chloronaphthalene	0.37	U	0.37	0.017	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
2-Chlorophenol	0.37	U	0.37	0.0052	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
2-Methylnaphthalene	0.035	J	0.37	0.0046	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
2-Methylphenol	0.37	U	0.37	0.0060	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
2-Nitroaniline	0.37	U	0.37	0.014	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
2-Nitrophenol	0.37	U	0.37	0.012	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
3 & 4 Methylphenol	0.37	U	0.37	0.0063	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.056	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
3-Nitroaniline	0.37	U	0.37	0.020	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-7_0.5-2.5

Lab Sample ID: 460-165685-9

Date Collected: 09/28/18 14:45

Matrix: Solid

Date Received: 09/28/18 20:00

Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	0.30	U	0.30	0.060	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
4-Bromophenyl phenyl ether	0.37	U	0.37	0.0048	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
4-Chloro-3-methylphenol	0.37	U	0.37	0.0062	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
4-Chloroaniline	0.37	U	0.37	0.026	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
4-Chlorophenyl phenyl ether	0.37	U	0.37	0.0059	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
4-Methylphenol	0.37	U	0.37	0.0063	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
4-Nitroaniline	0.37	U	0.37	0.014	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
4-Nitrophenol	0.75	U	0.75	0.061	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Acenaphthene	0.027	J	0.37	0.027	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Acenaphthylene	0.035	J	0.37	0.0038	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Acetophenone	0.37	U	0.37	0.0060	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Anthracene	0.067	J	0.37	0.0042	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Atrazine	0.15	U	0.15	0.0094	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Benzaldehyde	0.37	U	0.37	0.016	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Benzo[a]anthracene	0.23		0.037	0.013	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Benzo[a]pyrene	0.24		0.037	0.0099	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Benzo[b]fluoranthene	0.34		0.037	0.0096	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Benzo[g,h,i]perylene	0.15	J	0.37	0.011	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Benzo[k]fluoranthene	0.097		0.037	0.0073	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Bis(2-chloroethoxy)methane	0.37	U	0.37	0.013	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Bis(2-chloroethyl)ether	0.037	U *	0.037	0.0045	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Bis(2-ethylhexyl) phthalate	0.37	U	0.37	0.020	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Butyl benzyl phthalate	0.37	U	0.37	0.017	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Caprolactam	0.14	J	0.37	0.022	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Carbazole	0.016	J	0.37	0.0043	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Chrysene	0.27	J	0.37	0.0063	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Dibenz(a,h)anthracene	0.039		0.037	0.016	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Dibenzofuran	0.018	J	0.37	0.0052	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Diethyl phthalate	0.37	U	0.37	0.0054	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Dimethyl phthalate	0.37	U	0.37	0.0045	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Di-n-butyl phthalate	0.37	U	0.37	0.066	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Di-n-octyl phthalate	0.37	U	0.37	0.020	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Fluoranthene	0.39		0.37	0.0048	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Fluorene	0.034	J	0.37	0.0050	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Hexachlorobenzene	0.037	U	0.037	0.0054	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Hexachlorobutadiene	0.075	U	0.075	0.0079	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Hexachlorocyclopentadiene	0.37	U	0.37	0.033	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Hexachloroethane	0.037	U *	0.037	0.0057	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Indeno[1,2,3-cd]pyrene	0.16		0.037	0.015	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Isophorone	0.15	U	0.15	0.0098	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Naphthalene	0.040	J	0.37	0.0064	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Nitrobenzene	0.037	U *	0.037	0.0089	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
N-Nitrosodi-n-propylamine	0.037	U	0.037	0.0059	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
N-Nitrosodiphenylamine	0.37	U	0.37	0.0071	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Pentachlorophenol	0.30	U	0.30	0.076	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Phenanthrene	0.22	J	0.37	0.0065	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Phenol	0.37	U	0.37	0.0055	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1
Pyrene	0.40		0.37	0.0092	mg/Kg	☼	09/29/18 16:09	10/01/18 10:01	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: RX-7_0.5-2.5

Date Collected: 09/28/18 14:45

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-9

Matrix: Solid

Percent Solids: 88.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	59		10 - 103	09/29/18 16:09	10/01/18 10:01	1
2-Fluorobiphenyl	59		38 - 95	09/29/18 16:09	10/01/18 10:01	1
2-Fluorophenol (Surr)	59		25 - 92	09/29/18 16:09	10/01/18 10:01	1
Nitrobenzene-d5 (Surr)	53		37 - 94	09/29/18 16:09	10/01/18 10:01	1
Phenol-d5 (Surr)	57		32 - 91	09/29/18 16:09	10/01/18 10:01	1
Terphenyl-d14 (Surr)	54		24 - 109	09/29/18 16:09	10/01/18 10:01	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11900		22.3	7.6	mg/Kg	☼	10/03/18 16:56	10/04/18 12:21	20
Antimony	0.46	J	1.1	0.33	mg/Kg	☼	10/03/18 16:56	10/04/18 12:21	20
Arsenic	4.4		1.1	0.36	mg/Kg	☼	10/03/18 16:56	10/04/18 12:21	20
Barium	184		2.2	0.74	mg/Kg	☼	10/03/18 16:56	10/04/18 12:21	20
Beryllium	0.53		0.45	0.18	mg/Kg	☼	10/03/18 16:56	10/04/18 12:21	20
Cadmium	0.76	J	1.1	0.37	mg/Kg	☼	10/03/18 16:56	10/04/18 12:21	20
Calcium	30100		111	33.1	mg/Kg	☼	10/03/18 16:56	10/04/18 12:21	20
Chromium	29.8		2.2	0.67	mg/Kg	☼	10/03/18 16:56	10/04/18 12:21	20
Cobalt	8.4		2.2	0.67	mg/Kg	☼	10/03/18 16:56	10/04/18 12:21	20
Copper	37.6		2.2	0.64	mg/Kg	☼	10/03/18 16:56	10/04/18 12:21	20
Iron	18300		66.9	23.4	mg/Kg	☼	10/03/18 16:56	10/04/18 12:21	20
Lead	196		0.67	0.21	mg/Kg	☼	10/03/18 16:56	10/04/18 12:21	20
Magnesium	18000		111	31.0	mg/Kg	☼	10/03/18 16:56	10/04/18 12:21	20
Manganese	326		4.5	1.4	mg/Kg	☼	10/03/18 16:56	10/04/18 12:21	20
Nickel	22.7		2.2	0.73	mg/Kg	☼	10/03/18 16:56	10/04/18 12:21	20
Potassium	2410		111	40.1	mg/Kg	☼	10/03/18 16:56	10/04/18 12:21	20
Selenium	5.6	U	5.6	0.32	mg/Kg	☼	10/03/18 16:56	10/04/18 12:21	20
Silver	1.1	U	1.1	0.69	mg/Kg	☼	10/03/18 16:56	10/04/18 12:21	20
Sodium	1280		111	34.9	mg/Kg	☼	10/03/18 16:56	10/04/18 12:21	20
Thallium	0.21	J	0.45	0.14	mg/Kg	☼	10/03/18 16:56	10/04/18 12:21	20
Vanadium	32.1		2.2	0.63	mg/Kg	☼	10/03/18 16:56	10/04/18 12:21	20
Zinc	372		8.9	4.3	mg/Kg	☼	10/03/18 16:56	10/04/18 12:21	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24		0.017	0.010	mg/Kg	☼	10/03/18 04:31	10/03/18 10:28	1

Client Sample ID: Dup-20180928

Date Collected: 09/28/18 00:00

Date Received: 09/28/18 20:00

Lab Sample ID: 460-165685-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/03/18 18:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			10/03/18 18:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/03/18 18:02	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			10/03/18 18:02	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			10/03/18 18:02	1
1,1-Dichloroethene	1.0	U	1.0	0.12	ug/L			10/03/18 18:02	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			10/03/18 18:02	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			10/03/18 18:02	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.37	ug/L			10/03/18 18:02	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: Dup-20180928

Lab Sample ID: 460-165685-10

Date Collected: 09/28/18 00:00

Matrix: Water

Date Received: 09/28/18 20:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			10/03/18 18:02	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			10/03/18 18:02	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			10/03/18 18:02	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			10/03/18 18:02	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.33	ug/L			10/03/18 18:02	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			10/03/18 18:02	1
1,4-Dichlorobenzene	1.0	U	1.0	0.76	ug/L			10/03/18 18:02	1
1,4-Dioxane	50	U	50	28	ug/L			10/03/18 18:02	1
2-Butanone (MEK)	2.4	J	5.0	1.9	ug/L			10/03/18 18:02	1
2-Hexanone	5.0	U	5.0	2.9	ug/L			10/03/18 18:02	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.7	ug/L			10/03/18 18:02	1
Acetone	10		5.0	5.0	ug/L			10/03/18 18:02	1
Benzene	1.0	U	1.0	0.43	ug/L			10/03/18 18:02	1
Bromoform	1.0	U	1.0	0.54	ug/L			10/03/18 18:02	1
Bromomethane	1.0	U	1.0	1.0	ug/L			10/03/18 18:02	1
Carbon disulfide	1.0	U	1.0	0.16	ug/L			10/03/18 18:02	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			10/03/18 18:02	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			10/03/18 18:02	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			10/03/18 18:02	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			10/03/18 18:02	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/03/18 18:02	1
Chloroform	1.0	U	1.0	0.33	ug/L			10/03/18 18:02	1
Chloromethane	1.0	U	1.0	0.14	ug/L			10/03/18 18:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			10/03/18 18:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/03/18 18:02	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			10/03/18 18:02	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			10/03/18 18:02	1
Dichlorodifluoromethane	1.0	U	1.0	0.12	ug/L			10/03/18 18:02	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			10/03/18 18:02	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			10/03/18 18:02	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			10/03/18 18:02	1
Methyl acetate	5.0	U	5.0	0.31	ug/L			10/03/18 18:02	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			10/03/18 18:02	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			10/03/18 18:02	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			10/03/18 18:02	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			10/03/18 18:02	1
n-Butylbenzene	1.0	U	1.0	0.32	ug/L			10/03/18 18:02	1
N-Propylbenzene	1.0	U	1.0	0.32	ug/L			10/03/18 18:02	1
o-Xylene	1.0	U	1.0	0.36	ug/L			10/03/18 18:02	1
sec-Butylbenzene	1.0	U	1.0	0.37	ug/L			10/03/18 18:02	1
Styrene	1.0	U	1.0	0.42	ug/L			10/03/18 18:02	1
tert-Butylbenzene	1.0	U	1.0	0.34	ug/L			10/03/18 18:02	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			10/03/18 18:02	1
Toluene	1.0	U	1.0	0.38	ug/L			10/03/18 18:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/03/18 18:02	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			10/03/18 18:02	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			10/03/18 18:02	1
Trichlorofluoromethane	1.0	U	1.0	0.14	ug/L			10/03/18 18:02	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			10/03/18 18:02	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: Dup-20180928

Lab Sample ID: 460-165685-10

Date Collected: 09/28/18 00:00

Matrix: Water

Date Received: 09/28/18 20:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			10/03/18 18:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		74 - 132					10/03/18 18:02	1
4-Bromofluorobenzene	93		77 - 124					10/03/18 18:02	1
Dibromofluoromethane (Surr)	112		72 - 131					10/03/18 18:02	1
Toluene-d8 (Surr)	95		80 - 120					10/03/18 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		09/29/18 16:20	09/30/18 21:42	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		09/29/18 16:20	09/30/18 21:42	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		09/29/18 16:20	09/30/18 21:42	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		09/29/18 16:20	09/30/18 21:42	1
2,4,5-Trichlorophenol	10	U	10	0.28	ug/L		09/29/18 16:20	09/30/18 21:42	1
2,4,6-Trichlorophenol	10	U	10	0.30	ug/L		09/29/18 16:20	09/30/18 21:42	1
2,4-Dichlorophenol	10	U	10	0.42	ug/L		09/29/18 16:20	09/30/18 21:42	1
2,4-Dimethylphenol	10	U	10	0.24	ug/L		09/29/18 16:20	09/30/18 21:42	1
2,4-Dinitrophenol	20	U	20	14	ug/L		09/29/18 16:20	09/30/18 21:42	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		09/29/18 16:20	09/30/18 21:42	1
2,6-Dinitrotoluene	2.0	U	2.0	0.39	ug/L		09/29/18 16:20	09/30/18 21:42	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		09/29/18 16:20	09/30/18 21:42	1
2-Chlorophenol	10	U	10	0.38	ug/L		09/29/18 16:20	09/30/18 21:42	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/29/18 16:20	09/30/18 21:42	1
2-Methylphenol	10	U	10	0.26	ug/L		09/29/18 16:20	09/30/18 21:42	1
2-Nitroaniline	10	U	10	0.47	ug/L		09/29/18 16:20	09/30/18 21:42	1
2-Nitrophenol	10	U	10	0.75	ug/L		09/29/18 16:20	09/30/18 21:42	1
3 & 4 Methylphenol	4.0	J	10	0.24	ug/L		09/29/18 16:20	09/30/18 21:42	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		09/29/18 16:20	09/30/18 21:42	1
3-Nitroaniline	10	U	10	0.96	ug/L		09/29/18 16:20	09/30/18 21:42	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		09/29/18 16:20	09/30/18 21:42	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		09/29/18 16:20	09/30/18 21:42	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		09/29/18 16:20	09/30/18 21:42	1
4-Chloroaniline	10	U	10	1.9	ug/L		09/29/18 16:20	09/30/18 21:42	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		09/29/18 16:20	09/30/18 21:42	1
4-Methylphenol	4.0	J	10	0.24	ug/L		09/29/18 16:20	09/30/18 21:42	1
4-Nitroaniline	10	U	10	0.54	ug/L		09/29/18 16:20	09/30/18 21:42	1
4-Nitrophenol	20	U *	20	0.69	ug/L		09/29/18 16:20	09/30/18 21:42	1
Acenaphthene	10	U	10	1.1	ug/L		09/29/18 16:20	09/30/18 21:42	1
Acenaphthylene	10	U	10	0.82	ug/L		09/29/18 16:20	09/30/18 21:42	1
Acetophenone	10	U	10	0.79	ug/L		09/29/18 16:20	09/30/18 21:42	1
Anthracene	10	U	10	0.63	ug/L		09/29/18 16:20	09/30/18 21:42	1
Atrazine	2.0	U	2.0	1.3	ug/L		09/29/18 16:20	09/30/18 21:42	1
Benzaldehyde	10	U	10	0.59	ug/L		09/29/18 16:20	09/30/18 21:42	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/29/18 16:20	09/30/18 21:42	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/29/18 16:20	09/30/18 21:42	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/29/18 16:20	09/30/18 21:42	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/29/18 16:20	09/30/18 21:42	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/29/18 16:20	09/30/18 21:42	1
Bis(2-chloroethoxy)methane	10	U	10	0.24	ug/L		09/29/18 16:20	09/30/18 21:42	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: Dup-20180928

Lab Sample ID: 460-165685-10

Date Collected: 09/28/18 00:00

Matrix: Water

Date Received: 09/28/18 20:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	1.0	U	1.0	0.30	ug/L		09/29/18 16:20	09/30/18 21:42	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		09/29/18 16:20	09/30/18 21:42	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		09/29/18 16:20	09/30/18 21:42	1
Caprolactam	10	U	10	0.68	ug/L		09/29/18 16:20	09/30/18 21:42	1
Carbazole	4.6	J	10	0.68	ug/L		09/29/18 16:20	09/30/18 21:42	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/29/18 16:20	09/30/18 21:42	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/29/18 16:20	09/30/18 21:42	1
Dibenzofuran	10	U	10	1.1	ug/L		09/29/18 16:20	09/30/18 21:42	1
Diethyl phthalate	10	U	10	0.98	ug/L		09/29/18 16:20	09/30/18 21:42	1
Dimethyl phthalate	10	U	10	0.77	ug/L		09/29/18 16:20	09/30/18 21:42	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		09/29/18 16:20	09/30/18 21:42	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		09/29/18 16:20	09/30/18 21:42	1
Fluoranthene	1.0	J	10	0.84	ug/L		09/29/18 16:20	09/30/18 21:42	1
Fluorene	10	U	10	0.91	ug/L		09/29/18 16:20	09/30/18 21:42	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		09/29/18 16:20	09/30/18 21:42	1
Hexachlorobutadiene	1.0	U *	1.0	0.78	ug/L		09/29/18 16:20	09/30/18 21:42	1
Hexachlorocyclopentadiene	10	U *	10	1.7	ug/L		09/29/18 16:20	09/30/18 21:42	1
Hexachloroethane	2.0	U	2.0	1.2	ug/L		09/29/18 16:20	09/30/18 21:42	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/29/18 16:20	09/30/18 21:42	1
Isophorone	10	U	10	0.80	ug/L		09/29/18 16:20	09/30/18 21:42	1
Naphthalene	4.0	J	10	1.1	ug/L		09/29/18 16:20	09/30/18 21:42	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		09/29/18 16:20	09/30/18 21:42	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		09/29/18 16:20	09/30/18 21:42	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		09/29/18 16:20	09/30/18 21:42	1
Pentachlorophenol	20	U	20	1.4	ug/L		09/29/18 16:20	09/30/18 21:42	1
Phenanthrene	1.3	J	10	0.58	ug/L		09/29/18 16:20	09/30/18 21:42	1
Phenol	2.0	J	10	0.29	ug/L		09/29/18 16:20	09/30/18 21:42	1
Pyrene	10	U	10	1.6	ug/L		09/29/18 16:20	09/30/18 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	100		26 - 139	09/29/18 16:20	09/30/18 21:42	1
2-Fluorobiphenyl	66		45 - 107	09/29/18 16:20	09/30/18 21:42	1
2-Fluorophenol (Surr)	35		25 - 58	09/29/18 16:20	09/30/18 21:42	1
Nitrobenzene-d5 (Surr)	78		51 - 108	09/29/18 16:20	09/30/18 21:42	1
Phenol-d5 (Surr)	24		14 - 39	09/29/18 16:20	09/30/18 21:42	1
Terphenyl-d14 (Surr)	62		40 - 148	09/29/18 16:20	09/30/18 21:42	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	577		400	188	ug/L		10/03/18 19:55	10/04/18 16:46	20
Antimony	3.0		2.0	0.62	ug/L		10/03/18 19:55	10/04/18 15:19	2
Arsenic	2.9		2.0	0.73	ug/L		10/03/18 19:55	10/04/18 15:19	2
Barium	252		4.0	1.2	ug/L		10/03/18 19:55	10/04/18 15:19	2
Beryllium	0.80	U	0.80	0.25	ug/L		10/03/18 19:55	10/04/18 15:19	2
Cadmium	2.0	U	2.0	0.81	ug/L		10/03/18 19:55	10/04/18 15:19	2
Calcium	111000		200	67.6	ug/L		10/03/18 19:55	10/04/18 15:19	2
Chromium	4.0	U	4.0	2.3	ug/L		10/03/18 19:55	10/04/18 15:19	2
Cobalt	2.3	J	4.0	1.6	ug/L		10/03/18 19:55	10/04/18 15:19	2
Copper	5.2		4.0	2.0	ug/L		10/03/18 19:55	10/04/18 15:19	2
Iron	1190		120	51.1	ug/L		10/03/18 19:55	10/04/18 15:19	2

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165685-1

Client Sample ID: Dup-20180928

Lab Sample ID: 460-165685-10

Date Collected: 09/28/18 00:00

Matrix: Water

Date Received: 09/28/18 20:00

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	20.9		1.2	0.55	ug/L		10/03/18 19:55	10/04/18 15:19	2
Magnesium	55900		2000	737	ug/L		10/03/18 19:55	10/04/18 16:46	20
Manganese	826		8.0	2.9	ug/L		10/03/18 19:55	10/04/18 15:19	2
Nickel	5.8		4.0	2.4	ug/L		10/03/18 19:55	10/04/18 15:19	2
Potassium	68500		200	86.7	ug/L		10/03/18 19:55	10/04/18 15:19	2
Selenium	10.0	U	10.0	5.4	ug/L		10/03/18 19:55	10/04/18 15:19	2
Silver	2.0	U	2.0	0.59	ug/L		10/03/18 19:55	10/04/18 15:19	2
Sodium	1400000		2000	1280	ug/L		10/03/18 19:55	10/04/18 16:46	20
Thallium	0.80	U	0.80	0.16	ug/L		10/03/18 19:55	10/04/18 15:19	2
Vanadium	6.9		4.0	1.1	ug/L		10/03/18 19:55	10/04/18 15:19	2
Zinc	58.0		16.0	11.1	ug/L		10/03/18 19:55	10/04/18 15:19	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		10/04/18 11:38	10/04/18 13:48	1

ANALYTICAL REPORT

Job Number: 460-165818-1

Job Description: Taconic Inwood

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, NY 11749
Attention: Ms. Jessica Taylor

Melissa Haas

Approved for release.
Melissa Haas
Project Manager I
11/16/2018 11:43 AM

Melissa Haas, Project Manager I
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11/16/2018
Revision: 1

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TestAmerica Laboratories, Inc.

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Tel (732) 549-3900 Fax (732) 549-3679 www.testamericainc.com



Job Number: 460-165818-1

Job Description: Taconic Inwood

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

A handwritten signature in dark ink that reads "Melissa Haas". The signature is written in a cursive, flowing style. Below the signature is a solid horizontal line.

Approved for release.
Melissa Haas
Project Manager I
11/16/2018 11:43 AM

Melissa Haas

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CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: Taconic Inwood

**Report Number: 460-165818-1
Revised Report #1**

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

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

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

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

REVISED REPORT #1

The following report required a revision: 460-165818-1. Details are as follows: The client requested the addition of NY Part 375 compounds for VOCs, SVOCs.

RECEIPT

The samples were received on 10/1/2018 6:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

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

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples RX-9_1.0-2.5 (460-165818-1), RX-10-1.0-3.0 (460-165818-2) and RX-12_2.5-4.0 (460-165818-3) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260C. The samples were prepared and analyzed on 10/02/2018.

The continuing calibration verification (CCV) analyzed in batch 460-556830 was outside the method criteria for the following analyte: Bromoform. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

The laboratory control sample (LCS) for analytical batch 460-556830 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Methylcyclohexane was detected in method blank MB 460-556830/22 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS

Samples RX-9_1.0-2.5 (460-165818-1) and RX-12_2.5-4.0 (460-165818-3) were analyzed for polychlorinated biphenyls in accordance with EPA SW-846 Method 8082A. The samples were prepared and analyzed on 10/03/2018.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples RX-9_1.0-2.5 (460-165818-1), RX-10-1.0-3.0 (460-165818-2) and RX-12_2.5-4.0 (460-165818-3) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 10/02/2018 and analyzed on 10/02/2018 and 10/03/2018.

Several analytes failed the recovery criteria low for the Matrix Spike (MS) of sample RX-10-1.0-3.0MS (460-165818-2) in batch 460-556877. Anthracene failed the recovery criteria high.

Several analytes failed the recovery criteria low for the Matrix Spike Duplicate (MSD) of sample RX-10-1.0-3.0MSD (460-165818-2) in batch 460-556877. 2,4-Dinitrophenol, Anthracene and Chrysene exceeded the RPD limit.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

METALS

Samples RX-9_1.0-2.5 (460-165818-1), RX-10-1.0-3.0 (460-165818-2) and RX-12_2.5-4.0 (460-165818-3) were analyzed for Metals in accordance with EPA SW-846 Method 6020A. The samples were prepared on 10/03/2018 and analyzed on 10/04/2018.

Several analytes failed the recovery criteria low for the MS of sample 460-165685-7 in batch 460-557397. Barium, Calcium, Iron and Lead failed the recovery criteria high.

Antimony, Copper, Lead and Nickel exceeded the RPD limit for the duplicate of sample 460-165685-7.

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

Refer to the QC report for details.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples RX-9_1.0-2.5 (460-165818-1), RX-10-1.0-3.0 (460-165818-2) and RX-12_2.5-4.0 (460-165818-3) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 10/05/2018.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples RX-9_1.0-2.5 (460-165818-1), RX-10-1.0-3.0 (460-165818-2) and RX-12_2.5-4.0 (460-165818-3) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 10/04/2018.

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

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165818-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-165818-1	RX-9_1.0-2.5	Solid	10/01/18 11:00	10/01/18 18:40
460-165818-2	RX-10-1.0-3.0	Solid	10/01/18 14:00	10/01/18 18:40
460-165818-3	RX-12_2.5-4.0	Solid	10/01/18 15:45	10/01/18 18:40

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165818-1

Client Sample ID: RX-9_1.0-2.5

Lab Sample ID: 460-165818-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0026	J	0.0049	0.0011	mg/Kg	1	☼		8260C	Total/NA
Acetone	0.012		0.0049	0.0037	mg/Kg	1	☼		8260C	Total/NA
m-Xylene & p-Xylene	0.00046	J	0.00098	0.00017	mg/Kg	1	☼		8260C	Total/NA
o-Xylene	0.00056	J	0.00098	0.000093	mg/Kg	1	☼		8260C	Total/NA
Xylenes, Total	0.0010	J	0.0020	0.00025	mg/Kg	1	☼		8260C	Total/NA
2-Methylnaphthalene	0.010	J	0.39	0.0049	mg/Kg	1	☼		8270D	Total/NA
Acenaphthylene	0.021	J	0.39	0.0041	mg/Kg	1	☼		8270D	Total/NA
Benzo[a]anthracene	0.034	J	0.039	0.014	mg/Kg	1	☼		8270D	Total/NA
Benzo[a]pyrene	0.025	J	0.039	0.011	mg/Kg	1	☼		8270D	Total/NA
Benzo[b]fluoranthene	0.041		0.039	0.010	mg/Kg	1	☼		8270D	Total/NA
Benzo[g,h,i]perylene	0.022	J	0.39	0.012	mg/Kg	1	☼		8270D	Total/NA
Benzo[k]fluoranthene	0.012	J	0.039	0.0077	mg/Kg	1	☼		8270D	Total/NA
Chrysene	0.030	J	0.39	0.0067	mg/Kg	1	☼		8270D	Total/NA
Dibenzofuran	0.017	J	0.39	0.0055	mg/Kg	1	☼		8270D	Total/NA
Fluoranthene	0.063	J	0.39	0.0051	mg/Kg	1	☼		8270D	Total/NA
Fluorene	0.014	J	0.39	0.0054	mg/Kg	1	☼		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.026	J	0.039	0.015	mg/Kg	1	☼		8270D	Total/NA
Naphthalene	0.037	J	0.39	0.0068	mg/Kg	1	☼		8270D	Total/NA
Phenanthrene	0.040	J	0.39	0.0069	mg/Kg	1	☼		8270D	Total/NA
Pyrene	0.049	J	0.39	0.0098	mg/Kg	1	☼		8270D	Total/NA
Aluminum	8540		21.5	7.4	mg/Kg	20	☼		6020B	Total/NA
Arsenic	2.4		1.1	0.35	mg/Kg	20	☼		6020B	Total/NA
Barium	37.1		2.2	0.71	mg/Kg	20	☼		6020B	Total/NA
Beryllium	0.43		0.43	0.17	mg/Kg	20	☼		6020B	Total/NA
Calcium	53900		108	31.9	mg/Kg	20	☼		6020B	Total/NA
Chromium	14.4		2.2	0.65	mg/Kg	20	☼		6020B	Total/NA
Cobalt	5.9		2.2	0.65	mg/Kg	20	☼		6020B	Total/NA
Copper	13.5		2.2	0.62	mg/Kg	20	☼		6020B	Total/NA
Iron	14200		64.5	22.6	mg/Kg	20	☼		6020B	Total/NA
Lead	15.8		0.65	0.20	mg/Kg	20	☼		6020B	Total/NA
Magnesium	31600		108	29.9	mg/Kg	20	☼		6020B	Total/NA
Manganese	250		4.3	1.3	mg/Kg	20	☼		6020B	Total/NA
Nickel	14.5		2.2	0.70	mg/Kg	20	☼		6020B	Total/NA
Potassium	1910		108	38.7	mg/Kg	20	☼		6020B	Total/NA
Sodium	218		108	33.7	mg/Kg	20	☼		6020B	Total/NA
Vanadium	16.7		2.2	0.61	mg/Kg	20	☼		6020B	Total/NA
Zinc	70.4		8.6	4.2	mg/Kg	20	☼		6020B	Total/NA

Client Sample ID: RX-10-1.0-3.0

Lab Sample ID: 460-165818-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.0029		0.00088	0.000082	mg/Kg	1	☼		8260C	Total/NA
1,3,5-Trimethylbenzene	0.0012		0.00088	0.00010	mg/Kg	1	☼		8260C	Total/NA
2-Butanone (MEK)	0.0016	J	0.0044	0.00097	mg/Kg	1	☼		8260C	Total/NA
Acetone	0.0088		0.0044	0.0033	mg/Kg	1	☼		8260C	Total/NA
Carbon disulfide	0.00029	J	0.00088	0.00023	mg/Kg	1	☼		8260C	Total/NA
Ethylbenzene	0.00024	J	0.00088	0.00017	mg/Kg	1	☼		8260C	Total/NA
Isopropylbenzene	0.00024	J	0.00088	0.00011	mg/Kg	1	☼		8260C	Total/NA
m-Xylene & p-Xylene	0.00061	J	0.00088	0.00015	mg/Kg	1	☼		8260C	Total/NA
o-Xylene	0.00070	J	0.00088	0.000083	mg/Kg	1	☼		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165818-1

Client Sample ID: RX-10-1.0-3.0 (Continued)

Lab Sample ID: 460-165818-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Xylenes, Total	0.0013	J	0.0018	0.00022	mg/Kg	1	☼		8260C	Total/NA
1,1'-Biphenyl	0.032	J	0.37	0.0049	mg/Kg	1	☼		8270D	Total/NA
2-Methylnaphthalene	0.11	J	0.37	0.0046	mg/Kg	1	☼		8270D	Total/NA
Acenaphthene	0.29	J	0.37	0.027	mg/Kg	1	☼		8270D	Total/NA
Anthracene	0.53		0.37	0.0041	mg/Kg	1	☼		8270D	Total/NA
Benzo[a]anthracene	0.36		0.037	0.013	mg/Kg	1	☼		8270D	Total/NA
Benzo[a]pyrene	0.15		0.037	0.0099	mg/Kg	1	☼		8270D	Total/NA
Benzo[b]fluoranthene	0.23		0.037	0.0096	mg/Kg	1	☼		8270D	Total/NA
Benzo[g,h,i]perylene	0.058	J	0.37	0.011	mg/Kg	1	☼		8270D	Total/NA
Benzo[k]fluoranthene	0.13		0.037	0.0073	mg/Kg	1	☼		8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.065	J	0.37	0.020	mg/Kg	1	☼		8270D	Total/NA
Butyl benzyl phthalate	0.027	J	0.37	0.017	mg/Kg	1	☼		8270D	Total/NA
Carbazole	0.18	J	0.37	0.0043	mg/Kg	1	☼		8270D	Total/NA
Chrysene	0.35	J	0.37	0.0063	mg/Kg	1	☼		8270D	Total/NA
Dibenz(a,h)anthracene	0.017	J	0.037	0.016	mg/Kg	1	☼		8270D	Total/NA
Dibenzofuran	0.32	J	0.37	0.0052	mg/Kg	1	☼		8270D	Total/NA
Fluoranthene	2.2		0.37	0.0048	mg/Kg	1	☼		8270D	Total/NA
Fluorene	0.56		0.37	0.0050	mg/Kg	1	☼		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.070		0.037	0.014	mg/Kg	1	☼		8270D	Total/NA
Naphthalene	0.42		0.37	0.0064	mg/Kg	1	☼		8270D	Total/NA
Phenanthrene	2.8		0.37	0.0065	mg/Kg	1	☼		8270D	Total/NA
Pyrene	1.7		0.37	0.0092	mg/Kg	1	☼		8270D	Total/NA
Aluminum	8870		19.9	6.8	mg/Kg	20	☼		6020B	Total/NA
Arsenic	2.1		1.0	0.32	mg/Kg	20	☼		6020B	Total/NA
Barium	50.9		2.0	0.66	mg/Kg	20	☼		6020B	Total/NA
Beryllium	0.47		0.40	0.16	mg/Kg	20	☼		6020B	Total/NA
Calcium	50200		99.5	29.6	mg/Kg	20	☼		6020B	Total/NA
Chromium	15.7		2.0	0.60	mg/Kg	20	☼		6020B	Total/NA
Cobalt	20.2		2.0	0.60	mg/Kg	20	☼		6020B	Total/NA
Copper	14.2		2.0	0.57	mg/Kg	20	☼		6020B	Total/NA
Iron	13700		59.7	20.9	mg/Kg	20	☼		6020B	Total/NA
Lead	24.9		0.60	0.19	mg/Kg	20	☼		6020B	Total/NA
Magnesium	27900		99.5	27.7	mg/Kg	20	☼		6020B	Total/NA
Manganese	293		4.0	1.2	mg/Kg	20	☼		6020B	Total/NA
Nickel	15.1		2.0	0.65	mg/Kg	20	☼		6020B	Total/NA
Potassium	2630		99.5	35.8	mg/Kg	20	☼		6020B	Total/NA
Sodium	558		99.5	31.2	mg/Kg	20	☼		6020B	Total/NA
Vanadium	19.7		2.0	0.57	mg/Kg	20	☼		6020B	Total/NA
Zinc	72.7		8.0	3.9	mg/Kg	20	☼		6020B	Total/NA
Mercury	0.019		0.019	0.011	mg/Kg	1	☼		7471B	Total/NA

Client Sample ID: RX-12_2.5-4.0

Lab Sample ID: 460-165818-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Tetrachloroethene	0.00022	J	0.00099	0.00014	mg/Kg	1	☼		8260C	Total/NA
2-Methylnaphthalene	0.014	J	0.36	0.0045	mg/Kg	1	☼		8270D	Total/NA
Acenaphthene	0.053	J	0.36	0.026	mg/Kg	1	☼		8270D	Total/NA
Acenaphthylene	0.026	J	0.36	0.0037	mg/Kg	1	☼		8270D	Total/NA
Anthracene	0.15	J	0.36	0.0040	mg/Kg	1	☼		8270D	Total/NA
Benzo[a]anthracene	0.56		0.036	0.012	mg/Kg	1	☼		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165818-1

Client Sample ID: RX-12_2.5-4.0 (Continued)

Lab Sample ID: 460-165818-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]pyrene	0.44		0.036	0.0095	mg/Kg	1	☼		8270D	Total/NA
Benzo[b]fluoranthene	0.55		0.036	0.0092	mg/Kg	1	☼		8270D	Total/NA
Benzo[g,h,i]perylene	0.27	J	0.36	0.011	mg/Kg	1	☼		8270D	Total/NA
Benzo[k]fluoranthene	0.13		0.036	0.0070	mg/Kg	1	☼		8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.023	J	0.36	0.019	mg/Kg	1	☼		8270D	Total/NA
Butyl benzyl phthalate	0.037	J	0.36	0.017	mg/Kg	1	☼		8270D	Total/NA
Carbazole	0.047	J	0.36	0.0042	mg/Kg	1	☼		8270D	Total/NA
Chrysene	0.58		0.36	0.0060	mg/Kg	1	☼		8270D	Total/NA
Dibenz(a,h)anthracene	0.064		0.036	0.015	mg/Kg	1	☼		8270D	Total/NA
Dibenzofuran	0.018	J	0.36	0.0050	mg/Kg	1	☼		8270D	Total/NA
Fluoranthene	0.87		0.36	0.0046	mg/Kg	1	☼		8270D	Total/NA
Fluorene	0.048	J	0.36	0.0048	mg/Kg	1	☼		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.31		0.036	0.014	mg/Kg	1	☼		8270D	Total/NA
Naphthalene	0.016	J	0.36	0.0062	mg/Kg	1	☼		8270D	Total/NA
Phenanthrene	0.79		0.36	0.0063	mg/Kg	1	☼		8270D	Total/NA
Pyrene	1.1		0.36	0.0089	mg/Kg	1	☼		8270D	Total/NA
Aluminum	8360		19.3	6.6	mg/Kg	20	☼		6020B	Total/NA
Arsenic	3.6		0.97	0.31	mg/Kg	20	☼		6020B	Total/NA
Barium	78.7		1.9	0.64	mg/Kg	20	☼		6020B	Total/NA
Beryllium	0.35	J	0.39	0.16	mg/Kg	20	☼		6020B	Total/NA
Cadmium	1.9		0.97	0.32	mg/Kg	20	☼		6020B	Total/NA
Calcium	69400		96.5	28.7	mg/Kg	20	☼		6020B	Total/NA
Chromium	14.4		1.9	0.58	mg/Kg	20	☼		6020B	Total/NA
Cobalt	5.8		1.9	0.58	mg/Kg	20	☼		6020B	Total/NA
Copper	28.4		1.9	0.55	mg/Kg	20	☼		6020B	Total/NA
Iron	11600		57.9	20.3	mg/Kg	20	☼		6020B	Total/NA
Lead	94.7		0.58	0.18	mg/Kg	20	☼		6020B	Total/NA
Magnesium	36600		96.5	26.8	mg/Kg	20	☼		6020B	Total/NA
Manganese	250		3.9	1.2	mg/Kg	20	☼		6020B	Total/NA
Nickel	14.0		1.9	0.63	mg/Kg	20	☼		6020B	Total/NA
Potassium	2430		96.5	34.8	mg/Kg	20	☼		6020B	Total/NA
Silver	1.0		0.97	0.60	mg/Kg	20	☼		6020B	Total/NA
Sodium	452		96.5	30.2	mg/Kg	20	☼		6020B	Total/NA
Thallium	0.13	J	0.39	0.12	mg/Kg	20	☼		6020B	Total/NA
Vanadium	20.0		1.9	0.55	mg/Kg	20	☼		6020B	Total/NA
Zinc	206		7.7	3.8	mg/Kg	20	☼		6020B	Total/NA
Mercury	0.25		0.018	0.010	mg/Kg	1	☼		7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Method Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165818-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL EDI
6020B	Metals (ICP/MS)	SW846	TAL EDI
7471B	Mercury (CVAA)	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
3050B	Preparation, Metals	SW846	TAL EDI
3546	Microwave Extraction	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI
7471B	Preparation, Mercury	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165818-1

Client Sample ID: RX-9_1.0-2.5

Date Collected: 10/01/18 11:00

Date Received: 10/01/18 18:40

Lab Sample ID: 460-165818-1

Matrix: Solid

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00098	U	0.00098	0.00023	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
1,1,2,2-Tetrachloroethane	0.00098	U	0.00098	0.00021	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00098	U	0.00098	0.00029	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
1,1,2-Trichloroethane	0.00098	U	0.00098	0.00017	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
1,1-Dichloroethane	0.00098	U	0.00098	0.00020	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
1,1-Dichloroethene	0.00098	U	0.00098	0.00022	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
1,2,3-Trichlorobenzene	0.00098	U	0.00098	0.00018	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
1,2,4-Trichlorobenzene	0.00098	U	0.00098	0.000090	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
1,2,4-Trimethylbenzene	0.00098	U	0.00098	0.000092	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
1,2-Dibromo-3-Chloropropane	0.00098	U	0.00098	0.00045	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
1,2-Dichlorobenzene	0.00098	U	0.00098	0.00014	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
1,2-Dichloroethane	0.00098	U	0.00098	0.00029	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
1,2-Dichloropropane	0.00098	U	0.00098	0.00041	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
1,3,5-Trimethylbenzene	0.00098	U	0.00098	0.00011	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
1,3-Dichlorobenzene	0.00098	U	0.00098	0.00016	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
1,4-Dichlorobenzene	0.00098	U	0.00098	0.000098	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
1,4-Dioxane	0.020	U	0.020	0.0090	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
2-Butanone (MEK)	0.0026	J	0.0049	0.0011	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
2-Hexanone	0.0049	U	0.0049	0.00076	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
4-Methyl-2-pentanone (MIBK)	0.0049	U	0.0049	0.00065	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Acetone	0.012		0.0049	0.0037	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Benzene	0.00098	U	0.00098	0.00025	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Bromoform	0.00098	U	0.00098	0.00041	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Bromomethane	0.00098	U *	0.00098	0.00046	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Carbon disulfide	0.00098	U	0.00098	0.00026	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Carbon tetrachloride	0.00098	U	0.00098	0.00018	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Chlorobenzene	0.00098	U	0.00098	0.00017	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Chlorobromomethane	0.00098	U	0.00098	0.00027	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Chlorodibromomethane	0.00098	U	0.00098	0.00019	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Chloroethane	0.00098	U	0.00098	0.00051	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Chloroform	0.00098	U	0.00098	0.00031	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Chloromethane	0.00098	U	0.00098	0.00042	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
cis-1,2-Dichloroethene	0.00098	U	0.00098	0.00015	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
cis-1,3-Dichloropropene	0.00098	U	0.00098	0.00027	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Cyclohexane	0.00098	U	0.00098	0.00022	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Dichlorobromomethane	0.00098	U	0.00098	0.00025	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Dichlorodifluoromethane	0.00098	U	0.00098	0.00033	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Ethylbenzene	0.00098	U	0.00098	0.00019	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Ethylene Dibromide	0.00098	U	0.00098	0.00018	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Isopropylbenzene	0.00098	U	0.00098	0.00012	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Methyl acetate	0.0049	U	0.0049	0.0042	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Methyl tert-butyl ether	0.00098	U	0.00098	0.00012	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Methylcyclohexane	0.00098	U	0.00098	0.00016	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Methylene Chloride	0.00098	U	0.00098	0.00016	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
m-Xylene & p-Xylene	0.00046	J	0.00098	0.00017	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
n-Butylbenzene	0.00098	U	0.00098	0.00014	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
N-Propylbenzene	0.00098	U	0.00098	0.00017	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
o-Xylene	0.00056	J	0.00098	0.000093	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
sec-Butylbenzene	0.00098	U	0.00098	0.000086	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165818-1

Client Sample ID: RX-9_1.0-2.5

Lab Sample ID: 460-165818-1

Date Collected: 10/01/18 11:00

Matrix: Solid

Date Received: 10/01/18 18:40

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.00098	U	0.00098	0.00012	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
tert-Butylbenzene	0.00098	U	0.00098	0.00012	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Tetrachloroethene	0.00098	U	0.00098	0.00014	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Toluene	0.00098	U	0.00098	0.00061	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
trans-1,2-Dichloroethene	0.00098	U	0.00098	0.00024	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
trans-1,3-Dichloropropene	0.00098	U	0.00098	0.00026	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Trichloroethene	0.00098	U	0.00098	0.00014	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Trichlorofluoromethane	0.00098	U	0.00098	0.00040	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Vinyl chloride	0.00098	U	0.00098	0.00053	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1
Xylenes, Total	0.0010	J	0.0020	0.00025	mg/Kg	☼	10/02/18 08:10	10/02/18 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		78 - 135	10/02/18 08:10	10/02/18 21:16	1
4-Bromofluorobenzene	101		67 - 126	10/02/18 08:10	10/02/18 21:16	1
Dibromofluoromethane (Surr)	99		61 - 149	10/02/18 08:10	10/02/18 21:16	1
Toluene-d8 (Surr)	98		73 - 121	10/02/18 08:10	10/02/18 21:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.39	U	0.39	0.0052	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
1,2,4,5-Tetrachlorobenzene	0.39	U	0.39	0.0052	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
2,2'-oxybis[1-chloropropane]	0.39	U	0.39	0.0071	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
2,3,4,6-Tetrachlorophenol	0.39	U	0.39	0.027	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
2,4,5-Trichlorophenol	0.39	U	0.39	0.013	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
2,4,6-Trichlorophenol	0.16	U	0.16	0.020	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
2,4-Dichlorophenol	0.16	U	0.16	0.0083	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
2,4-Dimethylphenol	0.39	U	0.39	0.017	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
2,4-Dinitrophenol	0.32	U	0.32	0.19	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
2,4-Dinitrotoluene	0.080	U	0.080	0.020	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
2,6-Dinitrotoluene	0.080	U	0.080	0.013	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
2-Chloronaphthalene	0.39	U	0.39	0.018	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
2-Chlorophenol	0.39	U	0.39	0.0055	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
2-Methylnaphthalene	0.010	J	0.39	0.0049	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
2-Methylphenol	0.39	U	0.39	0.0064	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
2-Nitroaniline	0.39	U	0.39	0.015	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
2-Nitrophenol	0.39	U	0.39	0.013	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
3 & 4 Methylphenol	0.39	U	0.39	0.0067	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
3,3'-Dichlorobenzidine	0.16	U	0.16	0.060	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
3-Nitroaniline	0.39	U	0.39	0.021	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
4,6-Dinitro-2-methylphenol	0.32	U	0.32	0.064	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
4-Bromophenyl phenyl ether	0.39	U	0.39	0.0051	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
4-Chloro-3-methylphenol	0.39	U	0.39	0.0066	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
4-Chloroaniline	0.39	U	0.39	0.028	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
4-Chlorophenyl phenyl ether	0.39	U	0.39	0.0062	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
4-Methylphenol	0.39	U	0.39	0.0067	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
4-Nitroaniline	0.39	U	0.39	0.015	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
4-Nitrophenol	0.80	U	0.80	0.064	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Acenaphthene	0.39	U	0.39	0.029	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Acenaphthylene	0.021	J	0.39	0.0041	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Acetophenone	0.39	U	0.39	0.0064	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165818-1

Client Sample ID: RX-9_1.0-2.5

Lab Sample ID: 460-165818-1

Date Collected: 10/01/18 11:00

Matrix: Solid

Date Received: 10/01/18 18:40

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.39	U	0.39	0.0044	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Atrazine	0.16	U	0.16	0.010	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Benzaldehyde	0.39	U	0.39	0.017	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Benzo[a]anthracene	0.034	J	0.039	0.014	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Benzo[a]pyrene	0.025	J	0.039	0.011	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Benzo[b]fluoranthene	0.041		0.039	0.010	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Benzo[g,h,i]perylene	0.022	J	0.39	0.012	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Benzo[k]fluoranthene	0.012	J	0.039	0.0077	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Bis(2-chloroethoxy)methane	0.39	U	0.39	0.014	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Bis(2-chloroethyl)ether	0.039	U	0.039	0.0048	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Bis(2-ethylhexyl) phthalate	0.39	U	0.39	0.021	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Butyl benzyl phthalate	0.39	U	0.39	0.018	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Caprolactam	0.39	U	0.39	0.024	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Carbazole	0.39	U	0.39	0.0046	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Chrysene	0.030	J	0.39	0.0067	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Dibenz(a,h)anthracene	0.039	U	0.039	0.017	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Dibenzofuran	0.017	J	0.39	0.0055	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Diethyl phthalate	0.39	U	0.39	0.0057	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Dimethyl phthalate	0.39	U	0.39	0.0048	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Di-n-butyl phthalate	0.39	U	0.39	0.070	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Di-n-octyl phthalate	0.39	U	0.39	0.021	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Fluoranthene	0.063	J	0.39	0.0051	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Fluorene	0.014	J	0.39	0.0054	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Hexachlorobenzene	0.039	U	0.039	0.0058	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Hexachlorobutadiene	0.080	U	0.080	0.0084	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Hexachlorocyclopentadiene	0.39	U	0.39	0.035	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Hexachloroethane	0.039	U	0.039	0.0061	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Indeno[1,2,3-cd]pyrene	0.026	J	0.039	0.015	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Isophorone	0.16	U	0.16	0.010	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Naphthalene	0.037	J	0.39	0.0068	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Nitrobenzene	0.039	U	0.039	0.0095	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
N-Nitrosodi-n-propylamine	0.039	U	0.039	0.0063	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
N-Nitrosodiphenylamine	0.39	U	0.39	0.0075	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Pentachlorophenol	0.32	U	0.32	0.081	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Phenanthrene	0.040	J	0.39	0.0069	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Phenol	0.39	U	0.39	0.0058	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1
Pyrene	0.049	J	0.39	0.0098	mg/Kg	☼	10/02/18 09:55	10/03/18 00:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	56		10 - 103	10/02/18 09:55	10/03/18 00:14	1
2-Fluorobiphenyl	61		38 - 95	10/02/18 09:55	10/03/18 00:14	1
2-Fluorophenol (Surr)	59		25 - 92	10/02/18 09:55	10/03/18 00:14	1
Nitrobenzene-d5 (Surr)	57		37 - 94	10/02/18 09:55	10/03/18 00:14	1
Phenol-d5 (Surr)	59		32 - 91	10/02/18 09:55	10/03/18 00:14	1
Terphenyl-d14 (Surr)	64		24 - 109	10/02/18 09:55	10/03/18 00:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.080	U	0.080	0.011	mg/Kg	☼	10/03/18 11:51	10/03/18 23:03	1
Aroclor 1221	0.080	U	0.080	0.011	mg/Kg	☼	10/03/18 11:51	10/03/18 23:03	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165818-1

Client Sample ID: RX-9_1.0-2.5

Date Collected: 10/01/18 11:00

Date Received: 10/01/18 18:40

Lab Sample ID: 460-165818-1

Matrix: Solid

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1232	0.080	U	0.080	0.011	mg/Kg	☼	10/03/18 11:51	10/03/18 23:03	1
Aroclor 1242	0.080	U	0.080	0.011	mg/Kg	☼	10/03/18 11:51	10/03/18 23:03	1
Aroclor 1248	0.080	U	0.080	0.011	mg/Kg	☼	10/03/18 11:51	10/03/18 23:03	1
Aroclor 1254	0.080	U	0.080	0.011	mg/Kg	☼	10/03/18 11:51	10/03/18 23:03	1
Aroclor 1260	0.080	U	0.080	0.011	mg/Kg	☼	10/03/18 11:51	10/03/18 23:03	1
Aroclor-1262	0.080	U	0.080	0.011	mg/Kg	☼	10/03/18 11:51	10/03/18 23:03	1
Aroclor 1268	0.080	U	0.080	0.011	mg/Kg	☼	10/03/18 11:51	10/03/18 23:03	1
Polychlorinated biphenyls, Total	0.080	U	0.080	0.011	mg/Kg	☼	10/03/18 11:51	10/03/18 23:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	105		53 - 150	10/03/18 11:51	10/03/18 23:03	1
DCB Decachlorobiphenyl	94		53 - 150	10/03/18 11:51	10/03/18 23:03	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8540		21.5	7.4	mg/Kg	☼	10/03/18 19:17	10/04/18 13:44	20
Antimony	1.1	U	1.1	0.32	mg/Kg	☼	10/03/18 19:17	10/04/18 13:44	20
Arsenic	2.4		1.1	0.35	mg/Kg	☼	10/03/18 19:17	10/04/18 13:44	20
Barium	37.1		2.2	0.71	mg/Kg	☼	10/03/18 19:17	10/04/18 13:44	20
Beryllium	0.43		0.43	0.17	mg/Kg	☼	10/03/18 19:17	10/04/18 13:44	20
Cadmium	1.1	U	1.1	0.36	mg/Kg	☼	10/03/18 19:17	10/04/18 13:44	20
Calcium	53900		108	31.9	mg/Kg	☼	10/03/18 19:17	10/04/18 13:44	20
Chromium	14.4		2.2	0.65	mg/Kg	☼	10/03/18 19:17	10/04/18 13:44	20
Cobalt	5.9		2.2	0.65	mg/Kg	☼	10/03/18 19:17	10/04/18 13:44	20
Copper	13.5		2.2	0.62	mg/Kg	☼	10/03/18 19:17	10/04/18 13:44	20
Iron	14200		64.5	22.6	mg/Kg	☼	10/03/18 19:17	10/04/18 13:44	20
Lead	15.8		0.65	0.20	mg/Kg	☼	10/03/18 19:17	10/04/18 13:44	20
Magnesium	31600		108	29.9	mg/Kg	☼	10/03/18 19:17	10/04/18 13:44	20
Manganese	250		4.3	1.3	mg/Kg	☼	10/03/18 19:17	10/04/18 13:44	20
Nickel	14.5		2.2	0.70	mg/Kg	☼	10/03/18 19:17	10/04/18 13:44	20
Potassium	1910		108	38.7	mg/Kg	☼	10/03/18 19:17	10/04/18 13:44	20
Selenium	5.4	U	5.4	0.31	mg/Kg	☼	10/03/18 19:17	10/04/18 13:44	20
Silver	1.1	U	1.1	0.66	mg/Kg	☼	10/03/18 19:17	10/04/18 13:44	20
Sodium	218		108	33.7	mg/Kg	☼	10/03/18 19:17	10/04/18 13:44	20
Thallium	0.43	U	0.43	0.13	mg/Kg	☼	10/03/18 19:17	10/04/18 13:44	20
Vanadium	16.7		2.2	0.61	mg/Kg	☼	10/03/18 19:17	10/04/18 13:44	20
Zinc	70.4		8.6	4.2	mg/Kg	☼	10/03/18 19:17	10/04/18 13:44	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	U	0.018	0.011	mg/Kg	☼	10/05/18 03:55	10/05/18 08:44	1

Client Sample ID: RX-10-1.0-3.0

Date Collected: 10/01/18 14:00

Date Received: 10/01/18 18:40

Lab Sample ID: 460-165818-2

Matrix: Solid

Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00088	U	0.00088	0.00020	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
1,1,2,2-Tetrachloroethane	0.00088	U	0.00088	0.00019	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165818-1

Client Sample ID: RX-10-1.0-3.0

Lab Sample ID: 460-165818-2

Date Collected: 10/01/18 14:00

Matrix: Solid

Date Received: 10/01/18 18:40

Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00088	U	0.00088	0.00026	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
1,1,2-Trichloroethane	0.00088	U	0.00088	0.00016	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
1,1-Dichloroethane	0.00088	U	0.00088	0.00018	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
1,1-Dichloroethene	0.00088	U	0.00088	0.00020	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
1,2,3-Trichlorobenzene	0.00088	U	0.00088	0.00016	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
1,2,4-Trichlorobenzene	0.00088	U	0.00088	0.000081	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
1,2,4-Trimethylbenzene	0.0029		0.00088	0.000082	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
1,2-Dibromo-3-Chloropropane	0.00088	U	0.00088	0.00040	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
1,2-Dichlorobenzene	0.00088	U	0.00088	0.00013	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
1,2-Dichloroethane	0.00088	U	0.00088	0.00026	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
1,2-Dichloropropane	0.00088	U	0.00088	0.00037	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
1,3,5-Trimethylbenzene	0.0012		0.00088	0.00010	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
1,3-Dichlorobenzene	0.00088	U	0.00088	0.00014	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
1,4-Dichlorobenzene	0.00088	U	0.00088	0.000088	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
1,4-Dioxane	0.018	U	0.018	0.0081	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
2-Butanone (MEK)	0.0016	J	0.0044	0.00097	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
2-Hexanone	0.0044	U	0.0044	0.00068	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
4-Methyl-2-pentanone (MIBK)	0.0044	U	0.0044	0.00058	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Acetone	0.0088		0.0044	0.0033	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Benzene	0.00088	U	0.00088	0.00023	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Bromoform	0.00088	U	0.00088	0.00037	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Bromomethane	0.00088	U *	0.00088	0.00042	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Carbon disulfide	0.00029	J	0.00088	0.00023	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Carbon tetrachloride	0.00088	U	0.00088	0.00016	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Chlorobenzene	0.00088	U	0.00088	0.00016	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Chlorobromomethane	0.00088	U	0.00088	0.00025	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Chlorodibromomethane	0.00088	U	0.00088	0.00017	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Chloroethane	0.00088	U	0.00088	0.00046	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Chloroform	0.00088	U	0.00088	0.00028	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Chloromethane	0.00088	U	0.00088	0.00038	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
cis-1,2-Dichloroethene	0.00088	U	0.00088	0.00013	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
cis-1,3-Dichloropropene	0.00088	U	0.00088	0.00024	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Cyclohexane	0.00088	U	0.00088	0.00019	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Dichlorobromomethane	0.00088	U	0.00088	0.00023	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Dichlorodifluoromethane	0.00088	U	0.00088	0.00030	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Ethylbenzene	0.00024	J	0.00088	0.00017	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Ethylene Dibromide	0.00088	U	0.00088	0.00016	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Isopropylbenzene	0.00024	J	0.00088	0.00011	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Methyl acetate	0.0044	U	0.0044	0.0038	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Methyl tert-butyl ether	0.00088	U	0.00088	0.00011	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Methylcyclohexane	0.00088	U	0.00088	0.00014	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Methylene Chloride	0.00088	U	0.00088	0.00014	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
m-Xylene & p-Xylene	0.00061	J	0.00088	0.00015	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
n-Butylbenzene	0.00088	U	0.00088	0.00012	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
N-Propylbenzene	0.00088	U	0.00088	0.00015	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
o-Xylene	0.00070	J	0.00088	0.000083	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
sec-Butylbenzene	0.00088	U	0.00088	0.000077	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Styrene	0.00088	U	0.00088	0.00011	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
tert-Butylbenzene	0.00088	U	0.00088	0.00011	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165818-1

Client Sample ID: RX-10-1.0-3.0

Lab Sample ID: 460-165818-2

Date Collected: 10/01/18 14:00

Matrix: Solid

Date Received: 10/01/18 18:40

Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.00088	U	0.00088	0.00013	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Toluene	0.00088	U	0.00088	0.00055	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
trans-1,2-Dichloroethene	0.00088	U	0.00088	0.00022	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
trans-1,3-Dichloropropene	0.00088	U	0.00088	0.00023	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Trichloroethene	0.00088	U	0.00088	0.00013	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Trichlorofluoromethane	0.00088	U	0.00088	0.00036	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Vinyl chloride	0.00088	U	0.00088	0.00048	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1
Xylenes, Total	0.0013	J	0.0018	0.00022	mg/Kg	☼	10/02/18 08:11	10/02/18 21:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		78 - 135	10/02/18 08:11	10/02/18 21:40	1
4-Bromofluorobenzene	101		67 - 126	10/02/18 08:11	10/02/18 21:40	1
Dibromofluoromethane (Surr)	85		61 - 149	10/02/18 08:11	10/02/18 21:40	1
Toluene-d8 (Surr)	99		73 - 121	10/02/18 08:11	10/02/18 21:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.032	J	0.37	0.0049	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
1,2,4,5-Tetrachlorobenzene	0.37	U	0.37	0.0049	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
2,2'-oxybis[1-chloropropane]	0.37	U	0.37	0.0067	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
2,3,4,6-Tetrachlorophenol	0.37	U	0.37	0.025	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
2,4,5-Trichlorophenol	0.37	U	0.37	0.012	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.019	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
2,4-Dichlorophenol	0.15	U	0.15	0.0078	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
2,4-Dimethylphenol	0.37	U	0.37	0.016	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
2,4-Dinitrophenol	0.30	U	0.30	0.18	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
2,4-Dinitrotoluene	0.075	U	0.075	0.019	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
2,6-Dinitrotoluene	0.075	U	0.075	0.012	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
2-Chloronaphthalene	0.37	U	0.37	0.017	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
2-Chlorophenol	0.37	U	0.37	0.0052	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
2-Methylnaphthalene	0.11	J	0.37	0.0046	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
2-Methylphenol	0.37	U	0.37	0.0060	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
2-Nitroaniline	0.37	U	0.37	0.014	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
2-Nitrophenol	0.37	U	0.37	0.012	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
3 & 4 Methylphenol	0.37	U	0.37	0.0063	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.056	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
3-Nitroaniline	0.37	U	0.37	0.020	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
4,6-Dinitro-2-methylphenol	0.30	U	0.30	0.060	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
4-Bromophenyl phenyl ether	0.37	U	0.37	0.0048	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
4-Chloro-3-methylphenol	0.37	U	0.37	0.0062	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
4-Chloroaniline	0.37	U	0.37	0.026	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
4-Chlorophenyl phenyl ether	0.37	U	0.37	0.0058	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
4-Methylphenol	0.37	U	0.37	0.0063	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
4-Nitroaniline	0.37	U	0.37	0.014	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
4-Nitrophenol	0.75	U	0.75	0.060	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Acenaphthene	0.29	J	0.37	0.027	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Acenaphthylene	0.37	U	0.37	0.0038	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Acetophenone	0.37	U	0.37	0.0060	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Anthracene	0.53		0.37	0.0041	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Atrazine	0.15	U	0.15	0.0094	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165818-1

Client Sample ID: RX-10-1.0-3.0

Lab Sample ID: 460-165818-2

Date Collected: 10/01/18 14:00

Matrix: Solid

Date Received: 10/01/18 18:40

Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	0.37	U	0.37	0.016	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Benzo[a]anthracene	0.36		0.037	0.013	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Benzo[a]pyrene	0.15		0.037	0.0099	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Benzo[b]fluoranthene	0.23		0.037	0.0096	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Benzo[g,h,i]perylene	0.058	J	0.37	0.011	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Benzo[k]fluoranthene	0.13		0.037	0.0073	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Bis(2-chloroethoxy)methane	0.37	U	0.37	0.013	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Bis(2-chloroethyl)ether	0.037	U	0.037	0.0045	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Bis(2-ethylhexyl) phthalate	0.065	J	0.37	0.020	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Butyl benzyl phthalate	0.027	J	0.37	0.017	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Caprolactam	0.37	U	0.37	0.022	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Carbazole	0.18	J	0.37	0.0043	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Chrysene	0.35	J	0.37	0.0063	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Dibenz(a,h)anthracene	0.017	J	0.037	0.016	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Dibenzofuran	0.32	J	0.37	0.0052	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Diethyl phthalate	0.37	U	0.37	0.0054	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Dimethyl phthalate	0.37	U	0.37	0.0045	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Di-n-butyl phthalate	0.37	U	0.37	0.065	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Di-n-octyl phthalate	0.37	U	0.37	0.020	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Fluoranthene	2.2		0.37	0.0048	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Fluorene	0.56		0.37	0.0050	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Hexachlorobenzene	0.037	U	0.037	0.0054	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Hexachlorobutadiene	0.075	U	0.075	0.0079	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Hexachlorocyclopentadiene	0.37	U	0.37	0.033	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Hexachloroethane	0.037	U	0.037	0.0057	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Indeno[1,2,3-cd]pyrene	0.070		0.037	0.014	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Isophorone	0.15	U	0.15	0.0098	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Naphthalene	0.42		0.37	0.0064	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Nitrobenzene	0.037	U	0.037	0.0089	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
N-Nitrosodi-n-propylamine	0.037	U	0.037	0.0059	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
N-Nitrosodiphenylamine	0.37	U	0.37	0.0071	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Pentachlorophenol	0.30	U	0.30	0.076	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Phenanthrene	2.8		0.37	0.0065	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Phenol	0.37	U	0.37	0.0055	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1
Pyrene	1.7		0.37	0.0092	mg/Kg	☼	10/02/18 09:55	10/02/18 22:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	48		10 - 103	10/02/18 09:55	10/02/18 22:42	1
2-Fluorobiphenyl	53		38 - 95	10/02/18 09:55	10/02/18 22:42	1
2-Fluorophenol (Surr)	49		25 - 92	10/02/18 09:55	10/02/18 22:42	1
Nitrobenzene-d5 (Surr)	46		37 - 94	10/02/18 09:55	10/02/18 22:42	1
Phenol-d5 (Surr)	50		32 - 91	10/02/18 09:55	10/02/18 22:42	1
Terphenyl-d14 (Surr)	57		24 - 109	10/02/18 09:55	10/02/18 22:42	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8870		19.9	6.8	mg/Kg	☼	10/03/18 19:17	10/04/18 13:47	20
Antimony	1.0	U	1.0	0.29	mg/Kg	☼	10/03/18 19:17	10/04/18 13:47	20
Arsenic	2.1		1.0	0.32	mg/Kg	☼	10/03/18 19:17	10/04/18 13:47	20
Barium	50.9		2.0	0.66	mg/Kg	☼	10/03/18 19:17	10/04/18 13:47	20

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165818-1

Client Sample ID: RX-10-1.0-3.0

Date Collected: 10/01/18 14:00

Date Received: 10/01/18 18:40

Lab Sample ID: 460-165818-2

Matrix: Solid

Percent Solids: 88.9

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.47		0.40	0.16	mg/Kg	☼	10/03/18 19:17	10/04/18 13:47	20
Cadmium	1.0	U	1.0	0.33	mg/Kg	☼	10/03/18 19:17	10/04/18 13:47	20
Calcium	50200		99.5	29.6	mg/Kg	☼	10/03/18 19:17	10/04/18 13:47	20
Chromium	15.7		2.0	0.60	mg/Kg	☼	10/03/18 19:17	10/04/18 13:47	20
Cobalt	20.2		2.0	0.60	mg/Kg	☼	10/03/18 19:17	10/04/18 13:47	20
Copper	14.2		2.0	0.57	mg/Kg	☼	10/03/18 19:17	10/04/18 13:47	20
Iron	13700		59.7	20.9	mg/Kg	☼	10/03/18 19:17	10/04/18 13:47	20
Lead	24.9		0.60	0.19	mg/Kg	☼	10/03/18 19:17	10/04/18 13:47	20
Magnesium	27900		99.5	27.7	mg/Kg	☼	10/03/18 19:17	10/04/18 13:47	20
Manganese	293		4.0	1.2	mg/Kg	☼	10/03/18 19:17	10/04/18 13:47	20
Nickel	15.1		2.0	0.65	mg/Kg	☼	10/03/18 19:17	10/04/18 13:47	20
Potassium	2630		99.5	35.8	mg/Kg	☼	10/03/18 19:17	10/04/18 13:47	20
Selenium	5.0	U	5.0	0.29	mg/Kg	☼	10/03/18 19:17	10/04/18 13:47	20
Silver	1.0	U	1.0	0.62	mg/Kg	☼	10/03/18 19:17	10/04/18 13:47	20
Sodium	558		99.5	31.2	mg/Kg	☼	10/03/18 19:17	10/04/18 13:47	20
Thallium	0.40	U	0.40	0.12	mg/Kg	☼	10/03/18 19:17	10/04/18 13:47	20
Vanadium	19.7		2.0	0.57	mg/Kg	☼	10/03/18 19:17	10/04/18 13:47	20
Zinc	72.7		8.0	3.9	mg/Kg	☼	10/03/18 19:17	10/04/18 13:47	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.011	mg/Kg	☼	10/05/18 03:55	10/05/18 08:46	1

Client Sample ID: RX-12_2.5-4.0

Date Collected: 10/01/18 15:45

Date Received: 10/01/18 18:40

Lab Sample ID: 460-165818-3

Matrix: Solid

Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00099	U	0.00099	0.00023	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
1,1,2,2-Tetrachloroethane	0.00099	U	0.00099	0.00021	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00099	U	0.00099	0.00030	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
1,1,2-Trichloroethane	0.00099	U	0.00099	0.00018	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
1,1-Dichloroethane	0.00099	U	0.00099	0.00020	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
1,1-Dichloroethene	0.00099	U	0.00099	0.00022	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
1,2,3-Trichlorobenzene	0.00099	U	0.00099	0.00018	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
1,2,4-Trichlorobenzene	0.00099	U	0.00099	0.000091	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
1,2,4-Trimethylbenzene	0.00099	U	0.00099	0.000093	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
1,2-Dibromo-3-Chloropropane	0.00099	U	0.00099	0.00046	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
1,2-Dichlorobenzene	0.00099	U	0.00099	0.00014	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
1,2-Dichloroethane	0.00099	U	0.00099	0.00029	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
1,2-Dichloropropane	0.00099	U	0.00099	0.00042	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
1,3,5-Trimethylbenzene	0.00099	U	0.00099	0.00011	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
1,3-Dichlorobenzene	0.00099	U	0.00099	0.00016	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
1,4-Dichlorobenzene	0.00099	U	0.00099	0.000099	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
1,4-Dioxane	0.020	U	0.020	0.0091	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
2-Butanone (MEK)	0.0050	U	0.0050	0.0011	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
2-Hexanone	0.0050	U	0.0050	0.00077	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.00066	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Acetone	0.0050	U	0.0050	0.0038	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165818-1

Client Sample ID: RX-12_2.5-4.0

Lab Sample ID: 460-165818-3

Date Collected: 10/01/18 15:45

Matrix: Solid

Date Received: 10/01/18 18:40

Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00099	U	0.00099	0.00026	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Bromoform	0.00099	U	0.00099	0.00042	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Bromomethane	0.00099	U *	0.00099	0.00047	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Carbon disulfide	0.00099	U	0.00099	0.00026	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Carbon tetrachloride	0.00099	U	0.00099	0.00018	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Chlorobenzene	0.00099	U	0.00099	0.00018	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Chlorobromomethane	0.00099	U	0.00099	0.00028	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Chlorodibromomethane	0.00099	U	0.00099	0.00019	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Chloroethane	0.00099	U	0.00099	0.00052	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Chloroform	0.00099	U	0.00099	0.00032	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Chloromethane	0.00099	U	0.00099	0.00043	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
cis-1,2-Dichloroethene	0.00099	U	0.00099	0.00015	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
cis-1,3-Dichloropropene	0.00099	U	0.00099	0.00027	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Cyclohexane	0.00099	U	0.00099	0.00022	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Dichlorobromomethane	0.00099	U	0.00099	0.00025	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Dichlorodifluoromethane	0.00099	U	0.00099	0.00033	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Ethylbenzene	0.00099	U	0.00099	0.00020	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Ethylene Dibromide	0.00099	U	0.00099	0.00018	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Isopropylbenzene	0.00099	U	0.00099	0.00012	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Methyl tert-butyl ether	0.00099	U	0.00099	0.00012	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Methylcyclohexane	0.00099	U	0.00099	0.00016	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Methylene Chloride	0.00099	U	0.00099	0.00016	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
m-Xylene & p-Xylene	0.00099	U	0.00099	0.00017	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
n-Butylbenzene	0.00099	U	0.00099	0.00014	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
N-Propylbenzene	0.00099	U	0.00099	0.00017	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
o-Xylene	0.00099	U	0.00099	0.000094	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
sec-Butylbenzene	0.00099	U	0.00099	0.000087	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Styrene	0.00099	U	0.00099	0.00012	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
tert-Butylbenzene	0.00099	U	0.00099	0.00012	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Tetrachloroethene	0.00022	J	0.00099	0.00014	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Toluene	0.00099	U	0.00099	0.00062	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
trans-1,2-Dichloroethene	0.00099	U	0.00099	0.00024	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
trans-1,3-Dichloropropene	0.00099	U	0.00099	0.00026	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Trichloroethene	0.00099	U	0.00099	0.00014	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Trichlorofluoromethane	0.00099	U	0.00099	0.00040	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Vinyl chloride	0.00099	U	0.00099	0.00054	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1
Xylenes, Total	0.0020	U	0.0020	0.00025	mg/Kg	☼	10/02/18 08:12	10/02/18 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		78 - 135	10/02/18 08:12	10/02/18 22:04	1
4-Bromofluorobenzene	96		67 - 126	10/02/18 08:12	10/02/18 22:04	1
Dibromofluoromethane (Surr)	99		61 - 149	10/02/18 08:12	10/02/18 22:04	1
Toluene-d8 (Surr)	99		73 - 121	10/02/18 08:12	10/02/18 22:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.36	U	0.36	0.0047	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
1,2,4,5-Tetrachlorobenzene	0.36	U	0.36	0.0047	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
2,2'-oxybis[1-chloropropane]	0.36	U	0.36	0.0065	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165818-1

Client Sample ID: RX-12_2.5-4.0

Lab Sample ID: 460-165818-3

Date Collected: 10/01/18 15:45

Matrix: Solid

Date Received: 10/01/18 18:40

Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6-Tetrachlorophenol	0.36	U	0.36	0.024	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
2,4,5-Trichlorophenol	0.36	U	0.36	0.012	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.018	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
2,4-Dichlorophenol	0.14	U	0.14	0.0075	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
2,4-Dimethylphenol	0.36	U	0.36	0.016	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
2,4-Dinitrophenol	0.29	U	0.29	0.18	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
2,4-Dinitrotoluene	0.072	U	0.072	0.018	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
2,6-Dinitrotoluene	0.072	U	0.072	0.012	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
2-Chloronaphthalene	0.36	U	0.36	0.017	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
2-Chlorophenol	0.36	U	0.36	0.0050	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
2-Methylnaphthalene	0.014	J	0.36	0.0045	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
2-Methylphenol	0.36	U	0.36	0.0058	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
2-Nitroaniline	0.36	U	0.36	0.013	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
2-Nitrophenol	0.36	U	0.36	0.011	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
3 & 4 Methylphenol	0.36	U	0.36	0.0061	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
3,3'-Dichlorobenzidine	0.14	U	0.14	0.054	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
3-Nitroaniline	0.36	U	0.36	0.019	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
4,6-Dinitro-2-methylphenol	0.29	U	0.29	0.058	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
4-Bromophenyl phenyl ether	0.36	U	0.36	0.0046	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
4-Chloro-3-methylphenol	0.36	U	0.36	0.0059	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
4-Chloroaniline	0.36	U	0.36	0.025	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
4-Chlorophenyl phenyl ether	0.36	U	0.36	0.0056	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
4-Methylphenol	0.36	U	0.36	0.0061	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
4-Nitroaniline	0.36	U	0.36	0.013	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
4-Nitrophenol	0.72	U	0.72	0.058	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Acenaphthene	0.053	J	0.36	0.026	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Acenaphthylene	0.026	J	0.36	0.0037	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Acetophenone	0.36	U	0.36	0.0058	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Anthracene	0.15	J	0.36	0.0040	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Atrazine	0.14	U	0.14	0.0090	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Benzaldehyde	0.36	U	0.36	0.016	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Benzo[a]anthracene	0.56		0.036	0.012	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Benzo[a]pyrene	0.44		0.036	0.0095	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Benzo[b]fluoranthene	0.55		0.036	0.0092	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Benzo[g,h,i]perylene	0.27	J	0.36	0.011	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Benzo[k]fluoranthene	0.13		0.036	0.0070	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Bis(2-chloroethoxy)methane	0.36	U	0.36	0.012	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Bis(2-chloroethyl)ether	0.036	U	0.036	0.0043	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Bis(2-ethylhexyl) phthalate	0.023	J	0.36	0.019	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Butyl benzyl phthalate	0.037	J	0.36	0.017	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Caprolactam	0.36	U	0.36	0.021	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Carbazole	0.047	J	0.36	0.0042	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Chrysene	0.58		0.36	0.0060	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Dibenz(a,h)anthracene	0.064		0.036	0.015	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Dibenzofuran	0.018	J	0.36	0.0050	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Diethyl phthalate	0.36	U	0.36	0.0052	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Dimethyl phthalate	0.36	U	0.36	0.0043	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Di-n-butyl phthalate	0.36	U	0.36	0.063	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Di-n-octyl phthalate	0.36	U	0.36	0.019	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165818-1

Client Sample ID: RX-12_2.5-4.0

Date Collected: 10/01/18 15:45

Date Received: 10/01/18 18:40

Lab Sample ID: 460-165818-3

Matrix: Solid

Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	0.87		0.36	0.0046	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Fluorene	0.048	J	0.36	0.0048	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Hexachlorobenzene	0.036	U	0.036	0.0052	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Hexachlorobutadiene	0.072	U	0.072	0.0076	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Hexachlorocyclopentadiene	0.36	U	0.36	0.031	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Hexachloroethane	0.036	U	0.036	0.0055	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Indeno[1,2,3-cd]pyrene	0.31		0.036	0.014	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Isophorone	0.14	U	0.14	0.0094	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Naphthalene	0.016	J	0.36	0.0062	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Nitrobenzene	0.036	U	0.036	0.0086	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
N-Nitrosodi-n-propylamine	0.036	U	0.036	0.0057	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
N-Nitrosodiphenylamine	0.36	U	0.36	0.0068	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Pentachlorophenol	0.29	U	0.29	0.073	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Phenanthrene	0.79		0.36	0.0063	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Phenol	0.36	U	0.36	0.0053	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1
Pyrene	1.1		0.36	0.0089	mg/Kg	☼	10/02/18 09:55	10/03/18 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	58		10 - 103	10/02/18 09:55	10/03/18 00:36	1
2-Fluorobiphenyl	57		38 - 95	10/02/18 09:55	10/03/18 00:36	1
2-Fluorophenol (Surr)	55		25 - 92	10/02/18 09:55	10/03/18 00:36	1
Nitrobenzene-d5 (Surr)	53		37 - 94	10/02/18 09:55	10/03/18 00:36	1
Phenol-d5 (Surr)	57		32 - 91	10/02/18 09:55	10/03/18 00:36	1
Terphenyl-d14 (Surr)	63		24 - 109	10/02/18 09:55	10/03/18 00:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.072	U	0.072	0.0096	mg/Kg	☼	10/03/18 11:51	10/03/18 23:19	1
Aroclor 1221	0.072	U	0.072	0.0096	mg/Kg	☼	10/03/18 11:51	10/03/18 23:19	1
Aroclor 1232	0.072	U	0.072	0.0096	mg/Kg	☼	10/03/18 11:51	10/03/18 23:19	1
Aroclor 1242	0.072	U	0.072	0.0096	mg/Kg	☼	10/03/18 11:51	10/03/18 23:19	1
Aroclor 1248	0.072	U	0.072	0.0096	mg/Kg	☼	10/03/18 11:51	10/03/18 23:19	1
Aroclor 1254	0.072	U	0.072	0.0099	mg/Kg	☼	10/03/18 11:51	10/03/18 23:19	1
Aroclor 1260	0.072	U	0.072	0.0099	mg/Kg	☼	10/03/18 11:51	10/03/18 23:19	1
Aroclor-1262	0.072	U	0.072	0.0099	mg/Kg	☼	10/03/18 11:51	10/03/18 23:19	1
Aroclor 1268	0.072	U	0.072	0.0099	mg/Kg	☼	10/03/18 11:51	10/03/18 23:19	1
Polychlorinated biphenyls, Total	0.072	U	0.072	0.0099	mg/Kg	☼	10/03/18 11:51	10/03/18 23:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	94		53 - 150	10/03/18 11:51	10/03/18 23:19	1
DCB Decachlorobiphenyl	90		53 - 150	10/03/18 11:51	10/03/18 23:19	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8360		19.3	6.6	mg/Kg	☼	10/03/18 19:17	10/04/18 13:58	20
Antimony	0.97	U	0.97	0.28	mg/Kg	☼	10/03/18 19:17	10/04/18 13:58	20
Arsenic	3.6		0.97	0.31	mg/Kg	☼	10/03/18 19:17	10/04/18 13:58	20
Barium	78.7		1.9	0.64	mg/Kg	☼	10/03/18 19:17	10/04/18 13:58	20
Beryllium	0.35	J	0.39	0.16	mg/Kg	☼	10/03/18 19:17	10/04/18 13:58	20
Cadmium	1.9		0.97	0.32	mg/Kg	☼	10/03/18 19:17	10/04/18 13:58	20

TestAmerica Edison

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Project/Site: Taconic Inwood

TestAmerica Job ID: 460-165818-1

Client Sample ID: RX-12_2.5-4.0

Lab Sample ID: 460-165818-3

Date Collected: 10/01/18 15:45

Matrix: Solid

Date Received: 10/01/18 18:40

Percent Solids: 92.5

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	69400		96.5	28.7	mg/Kg	☼	10/03/18 19:17	10/04/18 13:58	20
Chromium	14.4		1.9	0.58	mg/Kg	☼	10/03/18 19:17	10/04/18 13:58	20
Cobalt	5.8		1.9	0.58	mg/Kg	☼	10/03/18 19:17	10/04/18 13:58	20
Copper	28.4		1.9	0.55	mg/Kg	☼	10/03/18 19:17	10/04/18 13:58	20
Iron	11600		57.9	20.3	mg/Kg	☼	10/03/18 19:17	10/04/18 13:58	20
Lead	94.7		0.58	0.18	mg/Kg	☼	10/03/18 19:17	10/04/18 13:58	20
Magnesium	36600		96.5	26.8	mg/Kg	☼	10/03/18 19:17	10/04/18 13:58	20
Manganese	250		3.9	1.2	mg/Kg	☼	10/03/18 19:17	10/04/18 13:58	20
Nickel	14.0		1.9	0.63	mg/Kg	☼	10/03/18 19:17	10/04/18 13:58	20
Potassium	2430		96.5	34.8	mg/Kg	☼	10/03/18 19:17	10/04/18 13:58	20
Selenium	4.8	U	4.8	0.28	mg/Kg	☼	10/03/18 19:17	10/04/18 13:58	20
Silver	1.0		0.97	0.60	mg/Kg	☼	10/03/18 19:17	10/04/18 13:58	20
Sodium	452		96.5	30.2	mg/Kg	☼	10/03/18 19:17	10/04/18 13:58	20
Thallium	0.13	J	0.39	0.12	mg/Kg	☼	10/03/18 19:17	10/04/18 13:58	20
Vanadium	20.0		1.9	0.55	mg/Kg	☼	10/03/18 19:17	10/04/18 13:58	20
Zinc	206		7.7	3.8	mg/Kg	☼	10/03/18 19:17	10/04/18 13:58	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.25		0.018	0.010	mg/Kg	☼	10/05/18 03:55	10/05/18 08:48	1