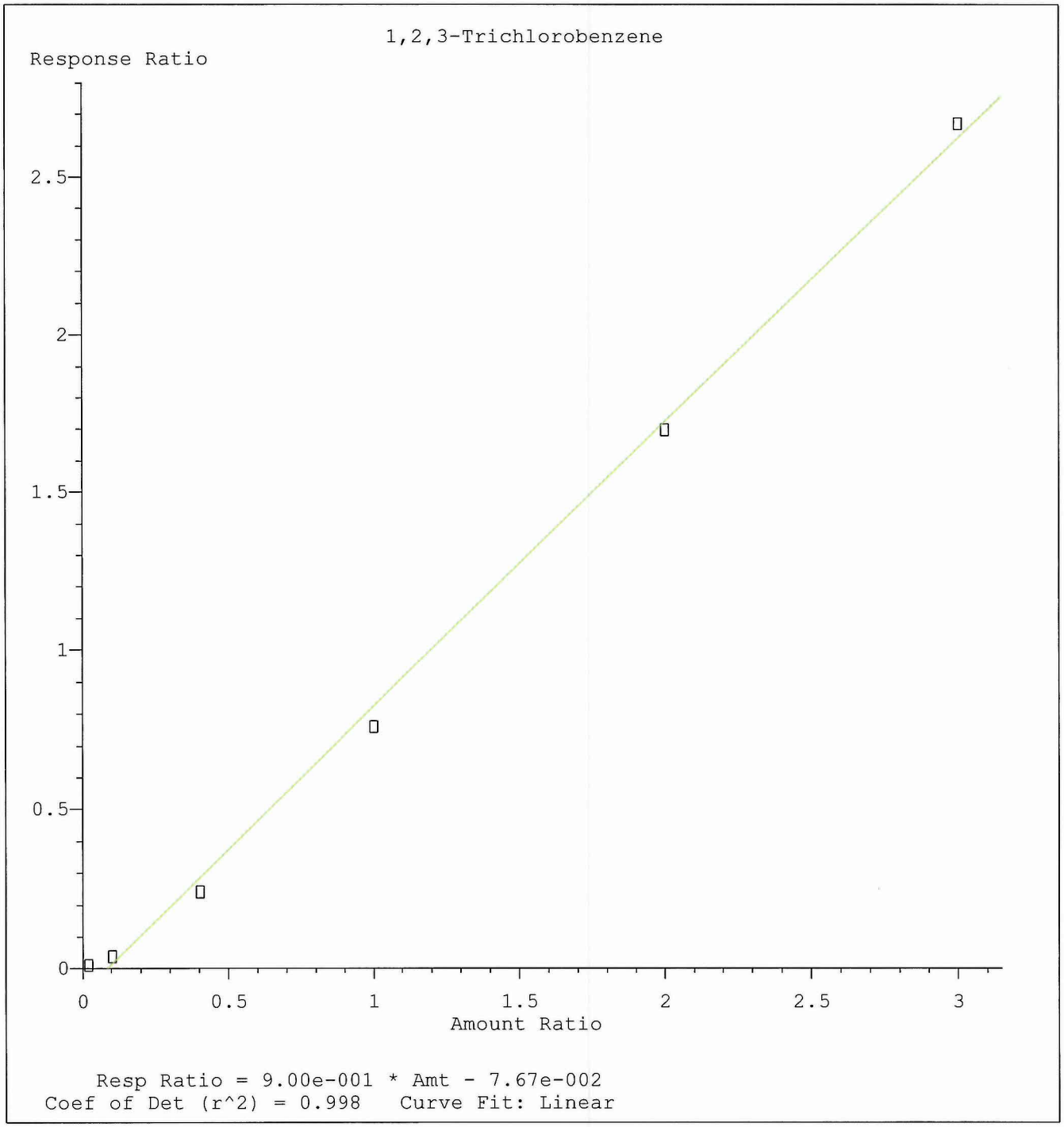
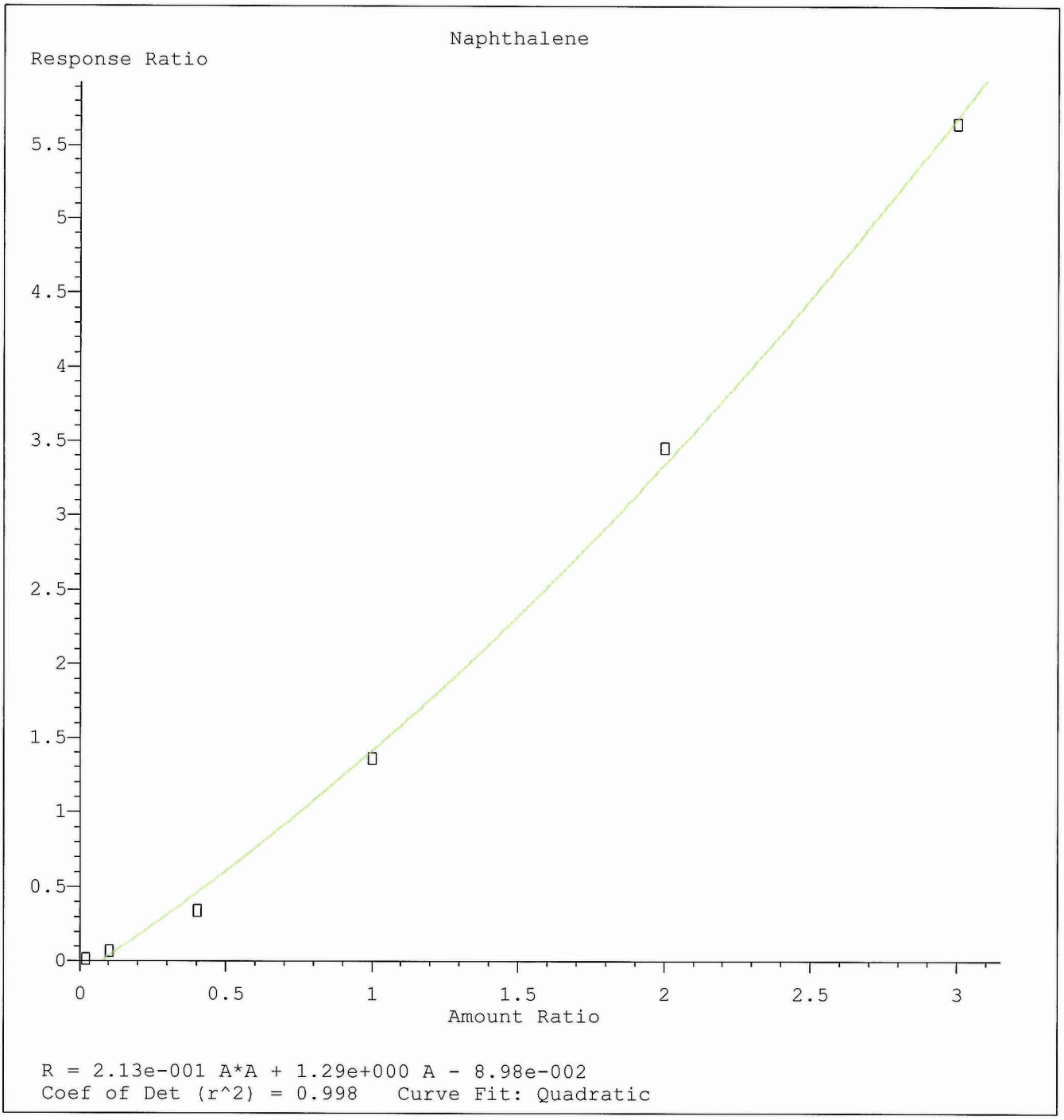
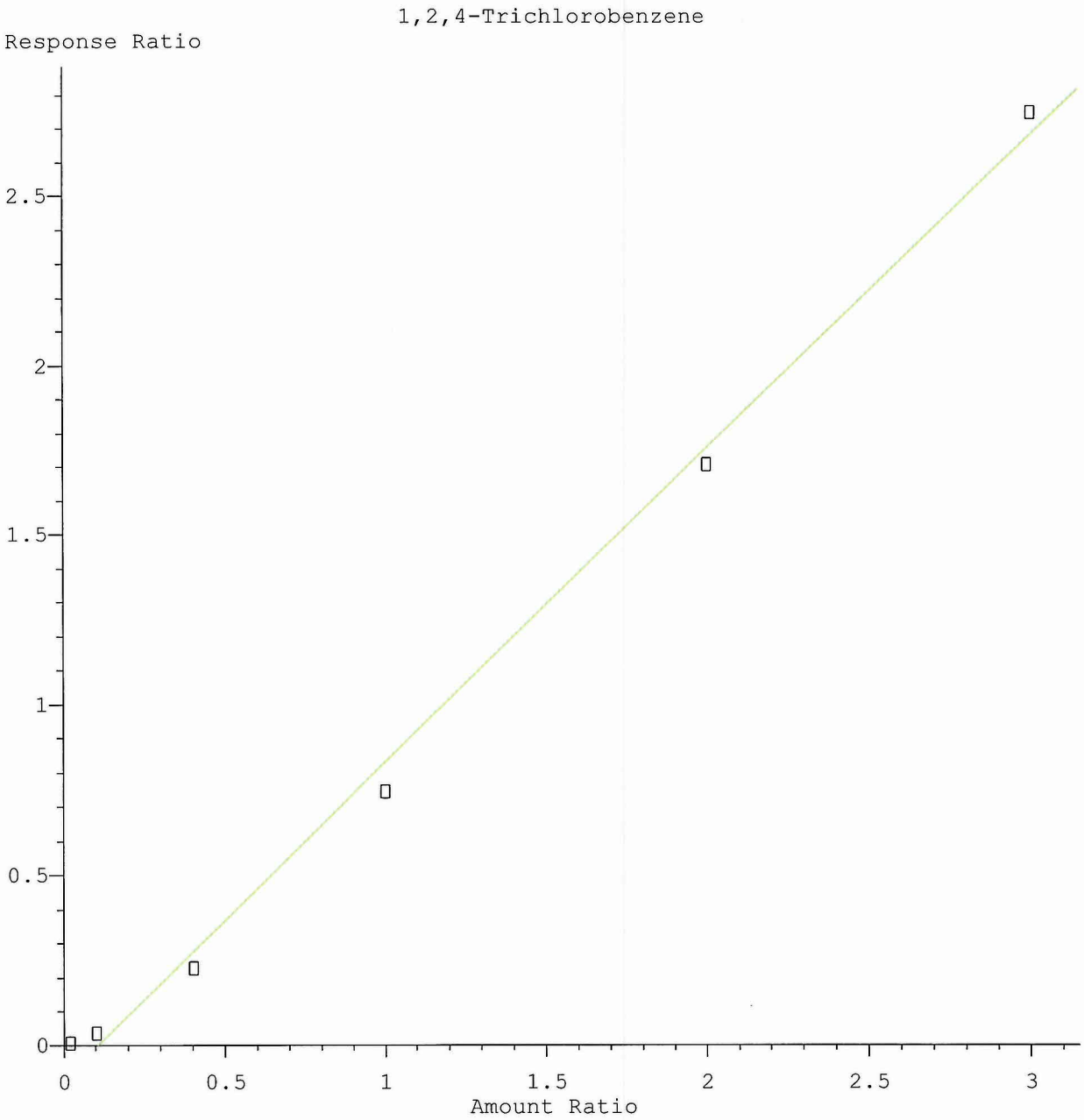


Method Name: W:\HPCHEM1\MSVOA_N\METHODS\82N0113017W.M
Calibration Table Last Updated: Fri Dec 01 14:38:12 2017

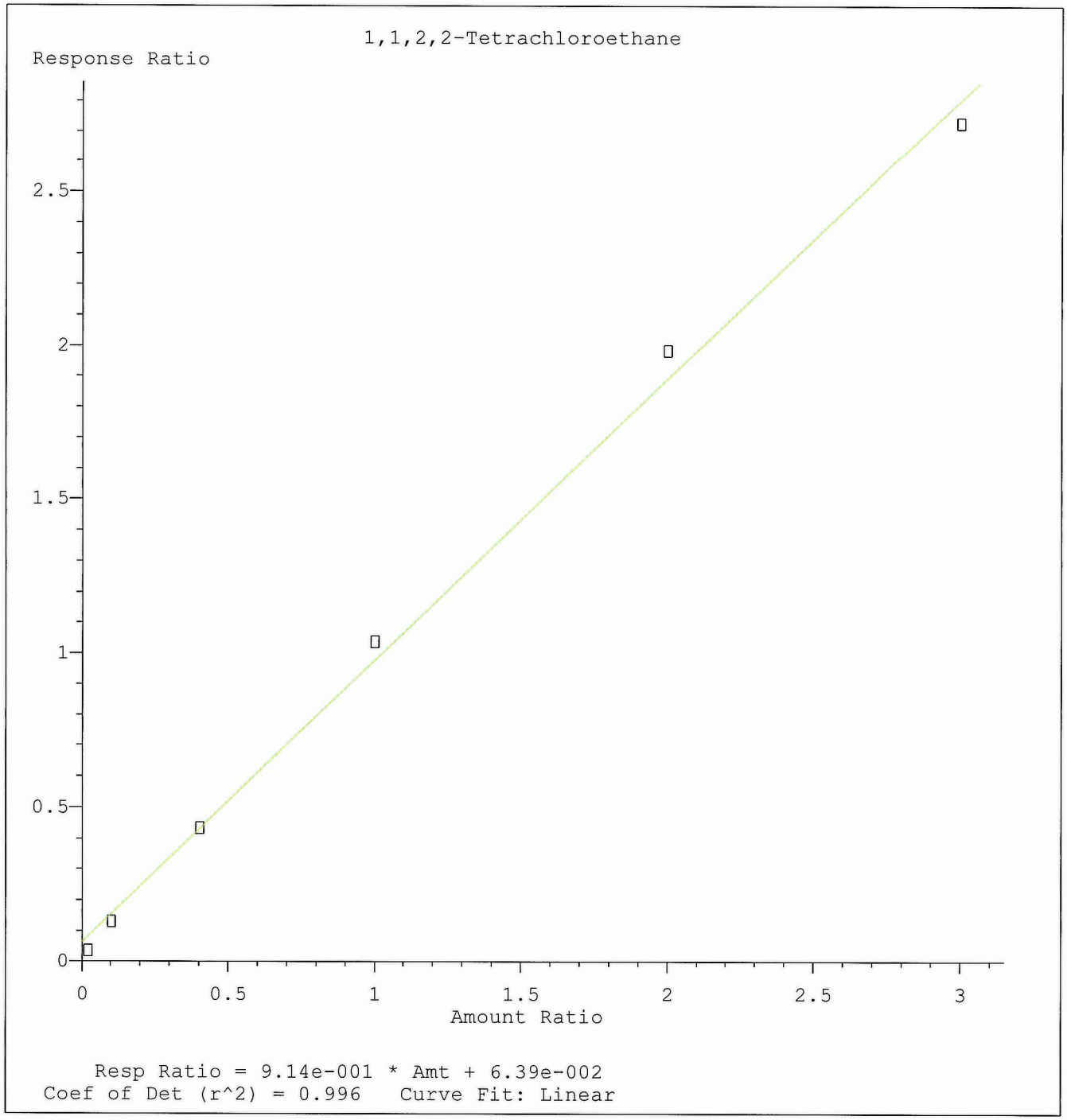


Method Name: W:\HPCHEM1\MSVOA_N\METHODS\82N0113017W.M
Calibration Table Last Updated: Fri Dec 01 14:38:12 2017

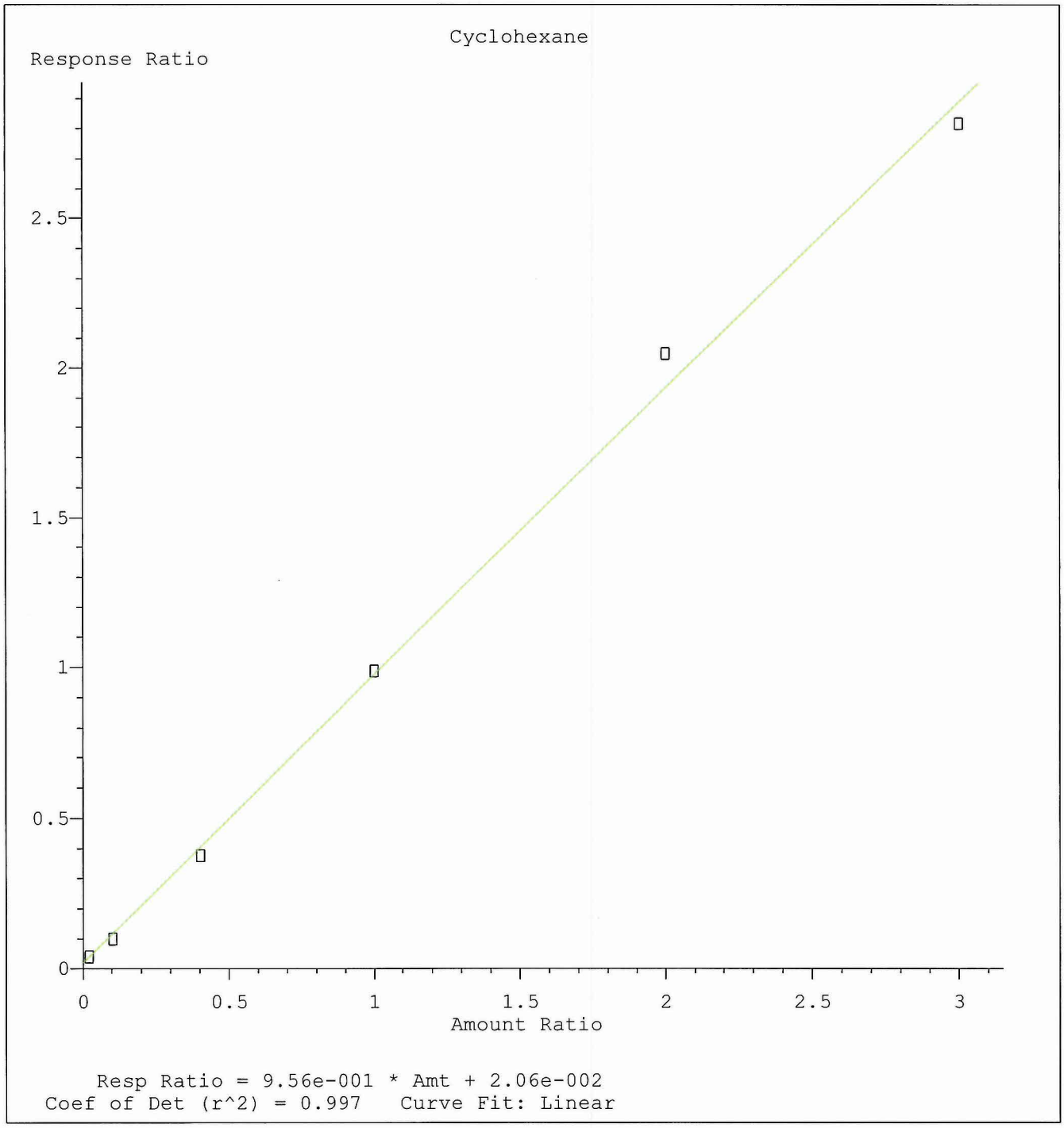


Resp Ratio = 9.25e-001 * Amt - 9.51e-002
Coef of Det (r^2) = 0.996 Curve Fit: Linear

Method Name: W:\HPCHEM1\MSVOA_N\METHODS\82N0113017W.M
Calibration Table Last Updated: Fri Dec 01 14:38:12 2017



Method Name: W:\HPCHEM1\MSVOA_N\METHODS\82N0113017W.M
Calibration Table Last Updated: Fri Dec 01 14:38:12 2017



Method Name: W:\HPCHEM1\MSVOA_N\METHODS\82N0113017W.M
Calibration Table Last Updated: Fri Dec 01 14:38:12 2017

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: I6740 SAS No.: I6740 SDG NO.: I6740

Lab File ID: VN045506.D BFB Injection Date: 12/06/2017

Instrument ID: MSVOA_N BFB Injection Time: 09:28

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.5
75	30.0 - 60.0% of mass 95	51.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	80.3
175	5.0 - 9.0% of mass 174	6.5 (8.1) 1
176	95.0 - 101.0% of mass 174	76.3 (95) 1
177	5.0 - 9.0% of mass 176	4.5 (5.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN045507.D	12/06/2017	10:06
VN1206WBL01	VN1206WBL01	VN045508.D	12/06/2017	10:41
VN1206WBS01	VN1206WBS01	VN045509.D	12/06/2017	11:16
FT-TB02-20171204	I6740-14	VN045515.D	12/06/2017	14:29
FT-PZ-456I-20171204	I6740-06	VN045518.D	12/06/2017	15:45
FT-PZ-456S-20171204	I6740-07	VN045519.D	12/06/2017	16:10
FT-PZ-461I-20171204	I6740-08	VN045520.D	12/06/2017	16:36
FT-DUP06-20171204	I6740-11	VN045521.D	12/06/2017	17:01
FT-PZ-460I-20171204	I6740-12	VN045522.D	12/06/2017	17:26
FT-PZ-461I-20171204MS	I6740-09MS	VN045525.D	12/06/2017	18:42
FT-PZ-461I-20171204MSD	I6740-10MSD	VN045526.D	12/06/2017	19:07
VSTDCCC050EC	VSTDCCC050	VN045527.D	12/06/2017	19:33

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: I6698 SAS No.: I6698 SDG No.: I6698

Instrument ID: MSVOA_N Calibration Date/Time: 12/06/2017 10:06

Lab File ID: VN045507.D Init. Calib. Date(s): 11/30/2017 11/30/2017

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:51 13:13

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.486	0.454		-6.58	20
Chloromethane	0.663	0.578	0.1	-12.82	20
Vinyl Chloride	0.629	0.575		-8.59	20
Bromomethane	0.358	0.319		-10.89	20
Chloroethane	0.380	0.345		-9.21	20
Trichlorofluoromethane	0.819	0.755		-7.81	20
1,1,2-Trichlorotrifluoroethane	0.541	0.508		-6.1	20
1,1-Dichloroethene	0.480	0.429		-10.63	20
Acetone	0.203	0.212		4.43	20
Carbon Disulfide	1.328	1.147		-13.63	20
Methyl tert-butyl Ether	1.431	1.390		-2.87	20
Methyl Acetate	0.515	0.506		-1.75	20
Methylene Chloride	0.586	0.540		-7.85	20
trans-1,2-Dichloroethene	0.510	0.467		-8.43	20
1,1-Dichloroethane	1.102	1.006	0.1	-8.71	20
Cyclohexane	1.129	0.879		-22.14	20
2-Butanone	0.246	0.244		-0.81	20
Carbon Tetrachloride	0.461	0.436		-5.42	20
cis-1,2-Dichloroethene	0.594	0.559		-5.89	20
Chloroform	1.029	0.962		-6.51	20
1,1,1-Trichloroethane	0.850	0.783		-7.88	20
Methylcyclohexane	0.557	0.550		-1.26	20
Benzene	1.463	1.431		-2.19	20
1,2-Dichloroethane	0.487	0.461		-5.34	20
Trichloroethene	0.347	0.337		-2.88	20
1,2-Dichloropropane	0.416	0.405		-2.64	20
Bromodichloromethane	0.476	0.476		0	20
4-Methyl-2-Pentanone	0.305	0.308		0.98	20
Toluene	0.842	0.847		0.59	20
t-1,3-Dichloropropene	0.489	0.508		3.88	20
cis-1,3-Dichloropropene	0.569	0.580		1.93	20
1,1,2-Trichloroethane	0.330	0.320		-3.03	20
2-Hexanone	0.201	0.216		7.46	20
Dibromochloromethane	0.328	0.329		0.31	20
1,2-Dibromoethane	0.299	0.299		0	20
Tetrachloroethene	0.353	0.335		-5.1	20
Chlorobenzene	1.037	0.985	0.3	-5.01	20
Ethyl Benzene	1.779	1.768		-0.62	20
m/p-Xylenes	0.655	0.665		1.53	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Evaluate Continuing Calibration Report

Sample Results: **VN045507.D**

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Data Path : W:\HPCHEM1\MSVOA N\Data\VN120617\
Data File : VN045507.D
Acq On : 6 Dec 2017 10:06
Operator : MD\SY
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 17:04:27 2017
Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\82N0113017W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 30 15:35:15 2017
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	118	0.00
2	T	Dichlorodifluoromethane	50.000	46.685	6.6	104	0.00
3	P	Chloromethane	50.000	43.584	12.8	103	0.00
4	C	Vinyl Chloride	50.000	45.690	8.6#	105	0.00
5	T	Bromomethane	50.000	44.430	11.1	108	0.00
6	T	Chloroethane	50.000	45.357	9.3	107	0.00
7	T	Trichlorofluoromethane	50.000	46.090	7.8	109	0.00
8	T	Diethyl Ether	50.000	46.040	7.9	106	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	46.883	6.2	115	0.00
10	T	Methyl Iodide	50.000	45.118	9.8	105	0.00
11	T	Tert butyl alcohol	250.000	231.801	7.3	101	0.00
12	CM	1,1-Dichloroethene	50.000	44.687	10.6#	105	0.00
13	T	Acrolein	250.000	151.468	39.4#	73	0.00
[illegible]	T	Allyl chloride	50.000	47.031	5.9	105	0.00
[illegible]	T	Acrylonitrile	250.000	232.399	7.0	107	0.00
16	T	Acetone	250.000	261.184	-4.5	122	0.00
17	T	Carbon Disulfide	50.000	43.184	13.6	98	0.00
18	T	Methyl Acetate	50.000	49.213	1.6	111	0.00
19	T	Methyl tert-butyl Ether	50.000	48.568	2.9	109	0.00
20	T	Methylene Chloride	50.000	46.139	7.7	110	0.00
21	T	trans-1,2-Dichloroethene	50.000	45.801	8.4	107	0.00
22	T	Diisopropyl ether	50.000	49.576	0.8	113	0.00
23	T	Vinyl Acetate	250.000	246.209	1.5	108	0.00
24	P	1,1-Dichloroethane	50.000	45.668	8.7	110	0.00
25	T	2-Butanone	250.000	247.962	0.8	112	0.00
26	T	2,2-Dichloropropane	50.000	47.066	5.9	112	0.00
27	T	cis-1,2-Dichloroethene	50.000	47.063	5.9	112	0.00
28	T	Bromochloromethane	50.000	50.738	-1.5	110	0.00
29	T	Tetrahydrofuran	250.000	238.507	4.6	104	0.00
30	C	Chloroform	50.000	46.750	6.5#	112	0.00
31	T	Cyclohexane	50.000	44.891	10.2	105	0.00
32	T	1,1,1-Trichloroethane	50.000	46.069	7.9	112	0.00
33	S	1,2-Dichloroethane-d4	50.000	48.995	2.0	113	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	112	0.00
35	S	Dibromofluoromethane	50.000	50.787	-1.6	114	0.00
36	T	1,1-Dichloropropene	50.000	49.214	1.6	109	0.00
37	T	Ethyl Acetate	50.000	51.361	-2.7	108	0.00
38	T	Carbon Tetrachloride	50.000	47.247	5.5	109	0.00
39	T	Methylcyclohexane	50.000	49.441	1.1	109	0.00
40	TM	Benzene	50.000	48.908	2.2	109	0.00
41	T	Methacrylonitrile	50.000	48.272	3.5	101	0.00
[illegible]	TM	1,2-Dichloroethane	50.000	47.274	5.5	110	0.00
[illegible]	T	Isopropyl Acetate	50.000	48.550	2.9	105	0.00
44	TM	Trichloroethene	50.000	48.517	3.0	111	0.00
45	C	1,2-Dichloropropane	50.000	48.658	2.7#	111	0.00

Evaluate Continuing Calibration Report

Sample Results: **VN045507.D**

Data Path : W:\HPCHEM1\MSVOA_N\Data\VN120617\
Data File : VN045507.D
Acq On : 6 Dec 2017 10:06
Operator : MD\SY
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument : MSVOA_N
LabSampleId : VSTDCCC050

Quant Time: Dec 06 17:04:27 2017
Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\82N0113017W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 30 15:35:15 2017
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
46	T	Dibromomethane	50.000	48.407	3.2	109	0.00
47	T	Bromodichloromethane	50.000	49.968	0.1	112	0.00
48	T	Methyl methacrylate	50.000	48.058	3.9	99	0.00
49	T	1,4-Dioxane	1000.000	1014.835	-1.5	109	0.00
50	S	Toluene-d8	50.000	50.755	-1.5	113	0.00
51	T	4-Methyl-2-Pentanone	250.000	252.816	-1.1	106	0.00
52	CM	Toluene	50.000	50.300	-0.6#	110	0.00
53	T	t-1,3-Dichloropropene	50.000	51.924	-3.8	112	0.00
54	T	cis-1,3-Dichloropropene	50.000	50.907	-1.8	110	0.00
55	T	1,1,2-Trichloroethane	50.000	48.360	3.3	111	0.00
56	T	Ethyl methacrylate	50.000	47.109	5.8	107	0.00
57	T	1,3-Dichloropropane	50.000	49.161	1.7	110	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	211.271	15.5	101	0.00
59	T	2-Hexanone	250.000	268.622	-7.4	109	0.00
60	T	Dibromochloromethane	50.000	50.096	-0.2	111	0.00
61	T	1,2-Dibromoethane	50.000	49.969	0.1	111	0.00
62	S	4-Bromofluorobenzene	50.000	53.273	-6.5	115	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	114	0.00
64	T	Tetrachloroethene	50.000	47.504	5.0	113	0.00
65	PM	Chlorobenzene	50.000	47.528	4.9	110	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	48.004	4.0	113	0.00
67	C	Ethyl Benzene	50.000	49.698	0.6#	111	0.00
68	T	m/p-Xylenes	100.000	101.605	-1.6	110	0.00
69	T	o-Xylene	50.000	51.081	-2.2	110	0.00
70	T	Styrene	50.000	53.481	-7.0	113	0.00
71	P	Bromoform	50.000	48.352	3.3	108	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	112	0.00
73	T	Isopropylbenzene	50.000	47.336	5.3	112	0.00
74	T	N-amyl acetate	50.000	49.534	0.9	105	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	51.547	-3.1	109	0.00
76	T	1,2,3-Trichloropropane	50.000	60.809	-21.6#	129	0.00
77	T	Bromobenzene	50.000	51.356	-2.7	112	0.00
78	T	n-propylbenzene	50.000	49.850	0.3	113	0.00
79	T	2-Chlorotoluene	50.000	47.576	4.8	112	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.906	0.2	112	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	46.279	7.4	109	0.00
82	T	4-Chlorotoluene	50.000	48.875	2.3	113	0.00
83	T	tert-Butylbenzene	50.000	48.225	3.5	113	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.804	-1.6	113	0.00
85	T	sec-Butylbenzene	50.000	49.723	0.6	114	0.00
86	T	p-Isopropyltoluene	50.000	51.172	-2.3	114	0.00
87	T	1,3-Dichlorobenzene	50.000	49.131	1.7	114	0.00
88	T	1,4-Dichlorobenzene	50.000	48.744	2.5	114	0.00
89	T	n-Butylbenzene	50.000	53.355	-6.7	115	0.00

Evaluate Continuing Calibration Report

Sample Results: **VN045507.D**

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Data Path : W:\HPCHEM1\MSVOA N\Data\VN120617\
Data File : VN045507.D
Acq On : 6 Dec 2017 10:06
Operator : MD\SY
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 17:04:27 2017
Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\82N0113017W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 30 15:35:15 2017
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
90	T	Hexachloroethane	50.000	51.701	-3.4	115	0.00
91	T	1,2-Dichlorobenzene	50.000	48.732	2.5	111	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	48.938	2.1	102	0.00
93	T	1,2,4-Trichlorobenzene	50.000	42.494	15.0	104	0.00
94	T	Hexachlorobutadiene	50.000	49.040	1.9	116	0.00
95	T	Naphthalene	50.000	42.425	15.2	96	0.00
96	T	1,2,3-Trichlorobenzene	50.000	43.438	13.1	104	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Sample Results: VN045507.D

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Data Path : W:\HPCHEM1\MSVOA_N\Data\VN120617\
Data File : VN045507.D
Acq On : 6 Dec 2017 10:06
Operator : MD\SY
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 17:04:27 2017
Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\82N0113017W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 30 15:35:15 2017
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	118	0.00
2	T	Dichlorodifluoromethane	0.486	0.454	6.6	104	0.00
3	P	Chloromethane	0.663	0.578	12.8	103	0.00
4	C	Vinyl Chloride	0.629	0.575	8.6#	105	0.00
5	T	Bromomethane	0.358	0.319	10.9	108	0.00
6	T	Chloroethane	0.380	0.345	9.2	107	0.00
7	T	Trichlorofluoromethane	0.819	0.755	7.8	109	0.00
8	T	Diethyl Ether	0.327	0.301	8.0	106	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.541	0.508	6.1	115	0.00
10	T	Methyl Iodide	0.493	0.497	-0.8	105	0.00
11	T	Tert butyl alcohol	0.042	0.039	7.1	101	0.00
12	CM	1,1-Dichloroethene	0.480	0.429	10.6#	105	0.00
13	T	Acrolein	0.032	0.019	40.6#	73	0.00
14	T	Allyl chloride	0.884	0.832	5.9	105	0.00
15	T	Acrylonitrile	0.215	0.200	7.0	107	0.00
16	T	Acetone	0.203	0.212	-4.4	122	0.00
17	T	Carbon Disulfide	1.328	1.147	13.6	98	0.00
18	T	Methyl Acetate	0.515	0.506	1.7	111	0.00
19	T	Methyl tert-butyl Ether	1.431	1.390	2.9	109	0.00
20	T	Methylene Chloride	0.586	0.540	7.8	110	0.00
21	T	trans-1,2-Dichloroethene	0.510	0.467	8.4	107	0.00
22	T	Diisopropyl ether	1.803	1.788	0.8	113	0.00
23	T	Vinyl Acetate	1.242	1.224	1.4	108	0.00
24	P	1,1-Dichloroethane	1.102	1.006	8.7	110	0.00
25	T	2-Butanone	0.246	0.244	0.8	112	0.00
26	T	2,2-Dichloropropane	0.871	0.820	5.9	112	0.00
27	T	cis-1,2-Dichloroethene	0.594	0.559	5.9	112	0.00
28	T	Bromochloromethane	0.469	0.476	-1.5	110	0.00
29	T	Tetrahydrofuran	0.150	0.143	4.7	104	0.00
30	C	Chloroform	1.029	0.962	6.5#	112	0.00
31	T	Cyclohexane	1.129	0.879	22.1#	105	0.00
32	T	1,1,1-Trichloroethane	0.850	0.783	7.9	112	0.00
33	S	1,2-Dichloroethane-d4	0.626	0.614	1.9	113	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	112	0.00
35	S	Dibromofluoromethane	0.330	0.335	-1.5	114	0.00
36	T	1,1-Dichloropropene	0.473	0.466	1.5	109	0.00
37	T	Ethyl Acetate	0.317	0.325	-2.5	108	0.00
38	T	Carbon Tetrachloride	0.461	0.436	5.4	109	0.00
39	T	Methylcyclohexane	0.557	0.550	1.3	109	0.00
40	TM	Benzene	1.463	1.431	2.2	109	0.00
41	T	Methacrylonitrile	0.166	0.160	3.6	101	0.00
42	TM	1,2-Dichloroethane	0.487	0.461	5.3	110	0.00
43	T	Isopropyl Acetate	0.573	0.557	2.8	105	0.00
44	TM	Trichloroethene	0.347	0.337	2.9	111	0.00
45	C	1,2-Dichloropropane	0.416	0.405	2.6#	111	0.00

Evaluate Continuing Calibration Report

Sample Results: VN045507.D

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Data Path : W:\HPCHEM1\MSVOA N\Data\VN120617\
Data File : VN045507.D
Acq On : 6 Dec 2017 10:06
Operator : MD\SY
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 17:04:27 2017
Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\82N0113017W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 30 15:35:15 2017
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	Dibromomethane	0.226	0.219	3.1	109	0.00
47	T	Bromodichloromethane	0.476	0.476	0.0	112	0.00
48	T	Methyl methacrylate	0.275	0.264	4.0	99	0.00
49	T	1,4-Dioxane	0.004	0.004	0.0	109	0.00
50	S	Toluene-d8	1.178	1.293	-9.8	113	0.00
51	T	4-Methyl-2-Pentanone	0.305	0.308	-1.0	106	0.00
52	CM	Toluene	0.842	0.847	-0.6#	110	0.00
53	T	t-1,3-Dichloropropene	0.489	0.508	-3.9	112	0.00
54	T	cis-1,3-Dichloropropene	0.569	0.580	-1.9	110	0.00
55	T	1,1,2-Trichloroethane	0.330	0.320	3.0	111	0.00
56	T	Ethyl methacrylate	0.401	0.427	-6.5	107	0.00
57	T	1,3-Dichloropropane	0.575	0.565	1.7	110	0.00
58	T	2-Chloroethyl Vinyl ether	0.103	0.105	-1.9	101	0.00
[illegible]	T	2-Hexanone	0.201	0.216	-7.5	109	0.00
[illegible]	T	Dibromochloromethane	0.328	0.329	-0.3	111	0.00
61	T	1,2-Dibromoethane	0.299	0.299	0.0	111	0.00
62	S	4-Bromofluorobenzene	0.404	0.431	-6.7	115	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	114	0.00
64	T	Tetrachloroethene	0.353	0.335	5.1	113	0.00
65	PM	Chlorobenzene	1.037	0.985	5.0	110	0.00
66	T	1,1,1,2-Tetrachloroethane	0.379	0.364	4.0	113	0.00
67	C	Ethyl Benzene	1.779	1.768	0.6#	111	0.00
68	T	m/p-Xylenes	0.655	0.665	-1.5	110	0.00
69	T	o-Xylene	0.628	0.641	-2.1	110	0.00
70	T	Styrene	0.984	1.052	-6.9	113	0.00
71	P	Bromoform	0.244	0.236	3.3	108	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	112	0.00
73	T	Isopropylbenzene	4.130	3.910	5.3	112	0.00
74	T	N-amyl acetate	1.162	1.151	0.9	105	0.00
75	P	1,1,2,2-Tetrachloroethane	1.182	1.006	14.9	109	0.00
76	T	1,2,3-Trichloropropane	0.903	0.912	-1.0	129	0.00
77	T	Bromobenzene	1.000	0.926	7.4	112	0.00
78	T	n-propylbenzene	4.718	4.704	0.3	113	0.00
79	T	2-Chlorotoluene	2.871	2.732	4.8	112	0.00
80	T	1,3,5-Trimethylbenzene	3.280	3.274	0.2	112	0.00
81	T	trans-1,4-Dichloro-2-butene	0.314	0.290	7.6	109	0.00
82	T	4-Chlorotoluene	2.802	2.739	2.2	113	0.00
83	T	tert-Butylbenzene	2.941	2.837	3.5	113	0.00
84	T	1,2,4-Trimethylbenzene	3.278	3.330	-1.6	113	0.00
85	T	sec-Butylbenzene	4.026	4.003	0.6	114	0.00
[illegible]	T	p-Isopropyltoluene	3.338	3.416	-2.3	114	0.00
[illegible]	T	1,3-Dichlorobenzene	1.654	1.625	1.8	114	0.00
88	T	1,4-Dichlorobenzene	1.618	1.577	2.5	114	0.00
89	T	n-Butylbenzene	2.763	2.948	-6.7	115	0.00

Evaluate Continuing Calibration Report

Sample Results: **VN045507.D**

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Data Path : W:\HPCHEM1\MSVOA N\Data\VN120617\
Data File : VN045507.D
Acq On : 6 Dec 2017 10:06
Operator : MD\SY
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 17:04:27 2017
Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\82N0113017W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 30 15:35:15 2017
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
90	T	Hexachloroethane	0.704	0.633	10.1	115	0.00
91	T	1,2-Dichlorobenzene	1.650	1.608	2.5	111	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.144	0.141	2.1	102	0.00
93	T	1,2,4-Trichlorobenzene	0.623	0.691	-10.9	104	0.00
94	T	Hexachlorobutadiene	0.591	0.580	1.9	116	0.00
95	T	Naphthalene	1.217	1.157	4.9	96	0.00
96	T	1,2,3-Trichlorobenzene	0.645	0.706	-9.5	104	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: I6698 SAS No.: I6698 SDG No.: I6698

Instrument ID: MSVOA_N Calibration Date/Time: 12/06/2017 10:06

Lab File ID: VN045507.D Init. Calib. Date(s): 11/30/2017 11/30/2017

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:51 13:13

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
o-Xylene	0.628	0.641		2.07	20
Styrene	0.984	1.052		6.91	20
Bromoform	0.244	0.236	0.1	-3.28	20
Isopropylbenzene	4.130	3.910		-5.33	20
1,1,2,2-Tetrachloroethane	1.182	1.006	0.3	-14.89	20
1,3-Dichlorobenzene	1.654	1.625		-1.75	20
1,4-Dichlorobenzene	1.618	1.577		-2.53	20
1,2-Dichlorobenzene	1.650	1.608		-2.55	20
1,2-Dibromo-3-Chloropropane	0.144	0.141		-2.08	20
1,2,4-Trichlorobenzene	0.623	0.691		10.91	20
Naphthalene	1.217	1.157		-4.93	20
1,2,3-Trichlorobenzene	0.645	0.706		9.46	20
1,2-Dichloroethane-d4	0.626	0.614		-1.92	20
Dibromofluoromethane	0.330	0.335		1.51	20
Toluene-d8	1.178	1.293		9.76	20
4-Bromofluorobenzene	0.404	0.431		6.68	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: I6698 SAS No.: I6698 SDG No.: I6698

Instrument ID: MSVOA_N Calibration Date/Time: 12/06/2017 19:33

Lab File ID: VN045527.D Init. Calib. Date(s): 11/30/2017 11/30/2017

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:51 13:13

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.486	0.440		-9.47	50
Chloromethane	0.663	0.579	0.1	-12.67	50
Vinyl Chloride	0.629	0.573		-8.9	50
Bromomethane	0.358	0.303		-15.36	50
Chloroethane	0.380	0.357		-6.05	50
Trichlorofluoromethane	0.819	0.757		-7.57	50
1,1,2-Trichlorotrifluoroethane	0.541	0.484		-10.54	50
1,1-Dichloroethene	0.480	0.444		-7.5	50
Acetone	0.203	0.184		-9.36	50
Carbon Disulfide	1.328	1.134		-14.61	50
Methyl tert-butyl Ether	1.431	1.484		3.7	50
Methyl Acetate	0.515	0.553		7.38	50
Methylene Chloride	0.586	0.555		-5.29	50
trans-1,2-Dichloroethene	0.510	0.475		-6.86	50
1,1-Dichloroethane	1.102	1.050	0.1	-4.72	50
Cyclohexane	1.129	0.874		-22.59	50
2-Butanone	0.246	0.251		2.03	50
Carbon Tetrachloride	0.461	0.414		-10.19	50
cis-1,2-Dichloroethene	0.594	0.573		-3.54	50
Chloroform	1.029	0.978		-4.96	50
1,1,1-Trichloroethane	0.850	0.797		-6.24	50
Methylcyclohexane	0.557	0.506		-9.16	50
Benzene	1.463	1.391		-4.92	50
1,2-Dichloroethane	0.487	0.454		-6.78	50
Trichloroethene	0.347	0.322		-7.2	50
1,2-Dichloropropane	0.416	0.397		-4.57	50
Bromodichloromethane	0.476	0.462		-2.94	50
4-Methyl-2-Pentanone	0.305	0.324		6.23	50
Toluene	0.842	0.819		-2.73	50
t-1,3-Dichloropropene	0.489	0.491		0.41	50
cis-1,3-Dichloropropene	0.569	0.564		-0.88	50
1,1,2-Trichloroethane	0.330	0.317		-3.94	50
2-Hexanone	0.201	0.218		8.46	50
Dibromochloromethane	0.328	0.325		-0.92	50
1,2-Dibromoethane	0.299	0.298		-0.33	50
Tetrachloroethene	0.353	0.320		-9.35	50
Chlorobenzene	1.037	0.990	0.3	-4.53	50
Ethyl Benzene	1.779	1.753		-1.46	50
m/p-Xylenes	0.655	0.657		0.31	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: I6698 SAS No.: I6698 SDG No.: I6698

Instrument ID: MSVOA_N Calibration Date/Time: 12/06/2017 19:33

Lab File ID: VN045527.D Init. Calib. Date(s): 11/30/2017 11/30/2017

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:51 13:13

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
o-Xylene	0.628	0.649		3.34	50
Styrene	0.984	1.041		5.79	50
Bromoform	0.244	0.237	0.1	-2.87	50
Isopropylbenzene	4.130	3.861		-6.51	50
1,1,2,2-Tetrachloroethane	1.182	1.044	0.3	-11.68	50
1,3-Dichlorobenzene	1.654	1.581		-4.41	50
1,4-Dichlorobenzene	1.618	1.537		-5.01	50
1,2-Dichlorobenzene	1.650	1.587		-3.82	50
1,2-Dibromo-3-Chloropropane	0.144	0.160		11.11	50
1,2,4-Trichlorobenzene	0.623	0.732		17.5	50
Naphthalene	1.217	1.415		16.27	50
1,2,3-Trichlorobenzene	0.645	0.762		18.14	50
1,2-Dichloroethane-d4	0.626	0.637		1.76	50
Dibromofluoromethane	0.330	0.326		-1.21	50
Toluene-d8	1.178	1.266		7.47	50
4-Bromofluorobenzene	0.404	0.422		4.45	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: I6740 SAS No.: I6740 SDG NO.: I6740

Lab File ID: VN045507.D Date Analyzed: 12/06/2017

Instrument ID: MSVOA_N Time Analyzed: 10:06

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	649293	7.67	990341	8.59	901775	11.41
UPPER LIMIT	1298590	8.17	1980680	9.09	1803550	11.91
LOWER LIMIT	324647	7.17	495171	8.09	450888	10.91
EPA SAMPLE NO.						
FT-PZ-456I-20171204	720741	7.67	1229548	8.59	1079415	11.41
FT-PZ-456S-20171204	648999	7.67	1100291	8.59	967491	11.41
FT-PZ-461I-20171204	719829	7.67	1208308	8.59	1065890	11.41
FT-PZ-461I-20171204MS	649222	7.67	1060762	8.59	909227	11.41
FT-PZ-461I-20171204MSD	611564	7.67	997076	8.59	868098	11.41
FT-DUP06-20171204	769192	7.67	1275458	8.59	1110368	11.41
FT-PZ-460I-20171204	700237	7.67	1165037	8.59	1013844	11.41
FT-TB02-20171204	536500	7.67	917643	8.59	815614	11.41
VN1206WBL01	497485	7.67	847472	8.59	758348	11.41
VN1206WBS01	534172	7.67	868220	8.59	766279	11.41

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: I6740 SAS No.: I6740 SDG NO.: I6740

Lab File ID: VN045507.D Date Analyzed: 12/06/2017

Instrument ID: MSVOA_N Time Analyzed: 10:06

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	399140	13.35				
UPPER LIMIT	798280	13.85				
LOWER LIMIT	199570	12.85				
EPA SAMPLE NO.						
FT-PZ-456I-20171204	342188	13.35				
FT-PZ-456S-20171204	293944	13.35				
FT-PZ-461I-20171204	325250	13.35				
FT-PZ-461I-20171204MS	393413	13.35				
FT-PZ-461I-20171204MSD	374098	13.35				
FT-DUP06-20171204	340554	13.35				
FT-PZ-460I-20171204	306212	13.35				
FT-TB02-20171204	229338	13.35				
VN1206WBL01	219902	13.35				
VN1206WBS01	313711	13.35				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1206WBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

Case No.: I6740

SAS No.: I6740

SDG NO.: I6740

Lab File ID: VN045508.D

Lab Sample ID: VN1206WBL01

Date Analyzed: 12/06/2017

Time Analyzed: 10:41

GC Column: RXI-624

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1206WBS01	VN1206WBS01	VN045509.D	12/06/2017
FT-TB02-20171204	I6740-14	VN045515.D	12/06/2017
FT-PZ-456I-20171204	I6740-06	VN045518.D	12/06/2017
FT-PZ-456S-20171204	I6740-07	VN045519.D	12/06/2017
FT-PZ-461I-20171204	I6740-08	VN045520.D	12/06/2017
FT-DUP06-20171204	I6740-11	VN045521.D	12/06/2017
FT-PZ-460I-20171204	I6740-12	VN045522.D	12/06/2017
FT-PZ-461I-20171204MS	I6740-09MS	VN045525.D	12/06/2017
FT-PZ-461I-20171204MSD	I6740-10MSD	VN045526.D	12/06/2017

COMMENTS:

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE05 NWIRP Calverton, NY	Date Received:	
Client Sample ID:	VN1206WBL01	SDG No.:	I6740
Lab Sample ID:	VN1206WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN045508.D	1		12/06/17 10:41	VN120617

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	5	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	5	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	5	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	5	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	5	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	5	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	5	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	5	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	25	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	5	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	5	ug/L
79-20-9	Methyl Acetate	2	U	0.2	2	5	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	5	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	5	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	5	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	5	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	25	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	5	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	5	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	5	ug/L
71-55-6	1,1,1-Trichloroethane	0.75	U	0.4	0.75	5	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	5	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	5	ug/L
107-06-2	1,2-Dichloroethane	0.75	U	0.48	0.75	5	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	5	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	5	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	5	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	25	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	5	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	5	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	5	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	5	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE05 NWIRP Calverton, NY	Date Received:	
Client Sample ID:	VN1206WBL01	SDG No.:	I6740
Lab Sample ID:	VN1206WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN045508.D	1		12/06/17 10:41	VN120617

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
591-78-6	2-Hexanone	3.8	U	1.9	3.8	25	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	5	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	5	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	5	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	5	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	5	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	10	ug/L
1330-20-7	Total Xylenes	1.5	U	1.38	1.5	15	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	5	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	5	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	5	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	5	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	5	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	5	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	5	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	5	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	2	U	0.46	2	5	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	5	ug/L
91-20-3	Naphthalene	0.5	U	0.2	0.5	5	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	5	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.7		81 - 118		113%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	50.5		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.6		85 - 114		89%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	497485	7.67				
540-36-3	1,4-Difluorobenzene	847472	8.59				
3114-55-4	Chlorobenzene-d5	758348	11.41				
3855-82-1	1,4-Dichlorobenzene-d4	219902	13.35				

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE05 NWIRP Calverton, NY	Date Received:	
Client Sample ID:	VN1206WBL01	SDG No.:	I6740
Lab Sample ID:	VN1206WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN045508.D	1		12/06/17 10:41	VN120617

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit

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Surrogate Summary

SW-846

SDG No.: I6740

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
I6740-01	FT-PZ-462S-20171202	2-Methylnaphthalene-d10	0.4	0.16	39		30	150
		Fluoranthene-d10	0.4	0.16	41		30	150
		Nitrobenzene-d5	0.4	0.25	62		55	111
		2-Fluorobiphenyl	0.4	0.26	64		53	106
		Terphenyl-d14	0.4	0.52	131		58	132
I6740-02	FT-PZ-462I-20171202	2-Methylnaphthalene-d10	0.4	0.38	96		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.59	147	*	55	111
		2-Fluorobiphenyl	0.4	0.54	136	*	53	106
		Terphenyl-d14	0.4	0.64	160	*	58	132
I6740-03	FT-PZ-455S-20171202	2-Methylnaphthalene-d10	0.4	0.38	96		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.57	142	*	55	111
		2-Fluorobiphenyl	0.4	0.57	142	*	53	106
		Terphenyl-d14	0.4	0.69	172	*	58	132
I6740-04	FT-PZ-455I-20171202	2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.54	135	*	55	111
		2-Fluorobiphenyl	0.4	0.62	154	*	53	106
		Terphenyl-d14	0.4	0.67	166	*	58	132
I6740-05	FT-PZ-453S-20171202	2-Methylnaphthalene-d10	0.4	0.40	100		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.61	153	*	55	111
		2-Fluorobiphenyl	0.4	0.65	163	*	53	106
		Terphenyl-d14	0.4	0.71	176	*	58	132
I6740-06	FT-PZ-456I-20171204	2-Methylnaphthalene-d10	0.4	0.38	94		30	150
		Fluoranthene-d10	0.4	0.37	91		30	150
		Nitrobenzene-d5	0.4	0.57	142	*	55	111
		2-Fluorobiphenyl	0.4	0.60	150	*	53	106
		Terphenyl-d14	0.4	0.65	162	*	58	132
I6740-07	FT-PZ-456S-20171204	2-Methylnaphthalene-d10	0.4	0.39	97		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.58	145	*	55	111
		2-Fluorobiphenyl	0.4	0.66	165	*	53	106
		Terphenyl-d14	0.4	0.63	157	*	58	132
I6740-08	FT-PZ-461I-20171204	2-Methylnaphthalene-d10	0.4	0.37	93		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.59	147	*	55	111
		2-Fluorobiphenyl	0.4	0.62	155	*	53	106
		Terphenyl-d14	0.4	0.65	162	*	58	132
I6740-11	FT-DUP06-20171204	2-Methylnaphthalene-d10	0.4	0.37	92		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.59	148	*	55	111
		2-Fluorobiphenyl	0.4	0.66	164	*	53	106
		Terphenyl-d14	0.4	0.66	165	*	58	132
I6740-12	FT-PZ-460I-20171204	2-Methylnaphthalene-d10	0.4	0.40	100		30	150
		Fluoranthene-d10	0.4	0.40	99		30	150
		Nitrobenzene-d5	0.4	0.64	159	*	55	111
		2-Fluorobiphenyl	0.4	0.67	167	*	53	106
		Terphenyl-d14	0.4	0.79	198	*	58	132
I6740-12DL	FT-PZ-460I-20171204DL	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.31	77		30	150

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Surrogate Summary

SW-846

SDG No.: I6740

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
I6740-12DL	FT-PZ-460I-20171204DL	Nitrobenzene-d5	0.4	0.50	124	*	55	111
		2-Fluorobiphenyl	0.4	0.59	147	*	53	106
		Terphenyl-d14	0.4	0.61	152	*	58	132
I6740-13	FT-PZ-457S-20171204	2-Methylnaphthalene-d10	0.4	0.37	92		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.60	149	*	55	111
		2-Fluorobiphenyl	0.4	0.57	143	*	53	106
		Terphenyl-d14	0.4	0.61	152	*	58	132
PB104842BL	PB104842BL	2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.29	71		30	150
		Nitrobenzene-d5	0.4	0.43	106		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
		Terphenyl-d14	0.4	0.40	100		58	132
PB104842BS	PB104842BS	2-Methylnaphthalene-d10	0.4	0.35	88		30	150
		Fluoranthene-d10	0.4	0.32	81		30	150
		Nitrobenzene-d5	0.4	0.49	122	*	55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.45	113		58	132
PB104842BSD	PB104842BSD	2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.32	79		30	150
		Nitrobenzene-d5	0.4	0.49	123	*	55	111
		2-Fluorobiphenyl	0.4	0.40	100		53	106
		Terphenyl-d14	0.4	0.46	114		58	132

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: I6740

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BE094951.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB104842BS	1,4-Dioxane	0.4	0.35	ug/L	88				70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: I6740

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BE094952.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB104842BSD	1,4-Dioxane	0.4	0.36	ug/L	90	3			70	130	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB104842BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: I6740 SAS No.: I6740 SDG NO.: I6740

Lab File ID: BE094953.D Lab Sample ID: PB104842BL

Instrument ID: BNA_E Date Extracted: 12/08/2017

Matrix: (soil/water) Water Date Analyzed: 12/08/2017

Level: (low/med) LOW Time Analyzed: 17:47

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
FT-PZ-461I-20171204	I6740-08	BE094961.D	12/08/2017
FT-DUP06-20171204	I6740-11	BE094965.D	12/09/2017
FT-PZ-460I-20171204	I6740-12	BE094966.D	12/09/2017
FT-PZ-457S-20171204	I6740-13	BE094967.D	12/09/2017
FT-PZ-456S-20171204	I6740-07	BE094972.D	12/11/2017
FT-PZ-462S-20171202	I6740-01	BE094954.D	12/08/2017
FT-PZ-462I-20171202	I6740-02	BE094955.D	12/08/2017
FT-PZ-455S-20171202	I6740-03	BE094956.D	12/08/2017
FT-PZ-455I-20171202	I6740-04	BE094957.D	12/08/2017
FT-PZ-453S-20171202	I6740-05	BE094958.D	12/08/2017
FT-PZ-456I-20171204	I6740-06	BE094959.D	12/08/2017
PB104842BS	PB104842BS	BE094951.D	12/08/2017
PB104842BSD	PB104842BSD	BE094952.D	12/08/2017

COMMENTS:

Form IV SV

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: I6740 SDG NO.: I6740

Lab File ID: BE094887.D DFTPP Injection Date: 11/30/2017

Instrument ID: BNA_E DFTPP Injection Time: 12:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	68.4
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	66.5
70	Less than 2.0% of mass 69	0.2 (0.3) 1
127	10.0 - 80.0% of mass 198	60.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	24.8
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	9.3
442	Greater than 50% of mass 198	55.5
443	15.0 - 24.0% of mass 442	10.9 (19.6) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BE094888.D	11/30/2017	12:37
SSTDICC0.2	SSTDICC0.2	BE094889.D	11/30/2017	13:13
SSTDICCC0.4	SSTDICCC0.4	BE094890.D	11/30/2017	13:49
SSTDICC0.8	SSTDICC0.8	BE094891.D	11/30/2017	14:24
SSTDICC1.6	SSTDICC1.6	BE094892.D	11/30/2017	15:00
SSTDICC3.2	SSTDICC3.2	BE094893.D	11/30/2017	15:36

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: I6740 SDG NO.: I6740

Lab File ID: BE094949.D DFTPP Injection Date: 12/08/2017

Instrument ID: BNA_E DFTPP Injection Time: 13:58

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	67.7
68	Less than 2.0% of mass 69	0.9 (1.4) 1
69	Mass 69 relative abundance	64.9
70	Less than 2.0% of mass 69	0.2 (0.3) 1
127	10.0 - 80.0% of mass 198	58.4
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	25.4
365	Greater than 1% of mass 198	2.9
441	Present, but less than mass 443	10.5
442	Greater than 50% of mass 198	59.9
443	15.0 - 24.0% of mass 442	11.8 (19.6) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BE094950.D	12/08/2017	14:34
PB104842BS	PB104842BS	BE094951.D	12/08/2017	16:36
PB104842BSD	PB104842BSD	BE094952.D	12/08/2017	17:12
PB104842BL	PB104842BL	BE094953.D	12/08/2017	17:47
FT-PZ-462S-20171202	I6740-01	BE094954.D	12/08/2017	18:23
FT-PZ-462I-20171202	I6740-02	BE094955.D	12/08/2017	18:59
FT-PZ-455S-20171202	I6740-03	BE094956.D	12/08/2017	19:32
FT-PZ-455I-20171202	I6740-04	BE094957.D	12/08/2017	20:08
FT-PZ-453S-20171202	I6740-05	BE094958.D	12/08/2017	20:44
FT-PZ-456I-20171204	I6740-06	BE094959.D	12/08/2017	21:19
FT-PZ-461I-20171204	I6740-08	BE094961.D	12/08/2017	22:31
SSTDCCC0.4EC	SSTDCCC0.4	BE094962.D	12/08/2017	23:07

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: I6740 SDG NO.: I6740

Lab File ID: BE094963.D DFTPP Injection Date: 12/08/2017

Instrument ID: BNA_E DFTPP Injection Time: 23:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	62.2
68	Less than 2.0% of mass 69	0.6 (0.9) 1
69	Mass 69 relative abundance	60.7
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	54.4
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 60.0% of mass 198	24.9
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	11.5
442	Greater than 50% of mass 198	61
443	15.0 - 24.0% of mass 442	11.6 (19) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BE094964.D	12/09/2017	00:24
FT-DUP06-20171204	I6740-11	BE094965.D	12/09/2017	01:00
FT-PZ-460I-20171204	I6740-12	BE094966.D	12/09/2017	01:36
FT-PZ-457S-20171204	I6740-13	BE094967.D	12/09/2017	02:12
SSTDCCC0.4EC	SSTDCCC0.4	BE094969.D	12/09/2017	03:21

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: I6740 SDG NO.: I6740

Lab File ID: BE094970.D DFTPP Injection Date: 12/11/2017

Instrument ID: BNA_E DFTPP Injection Time: 11:57

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	62.9
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	64.6
70	Less than 2.0% of mass 69	0.4 (0.6) 1
127	10.0 - 80.0% of mass 198	56.8
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	9.8
442	Greater than 50% of mass 198	56.4
443	15.0 - 24.0% of mass 442	10.8 (19.2) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BE094971.D	12/11/2017	12:30
FT-PZ-456S-20171204	I6740-07	BE094972.D	12/11/2017	13:18
FT-PZ-460I-20171204DL	I6740-12DL	BE094973.D	12/11/2017	14:38
SSTDCCC0.4EC	SSTDCCC0.4	BE094974.D	12/11/2017	15:26

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: I6740 SAS No.: I6740 SDG NO.: I6740

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/08/2017

Lab File ID: BE094950.D Time Analyzed: 14:34

Instrument ID: BNA_E GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	6221	8.48	14453	11.33	8334	15.08
	UPPER LIMIT	12442	8.98	28906	11.83	16668	15.58
	LOWER LIMIT	3110.5	7.98	7226.5	10.83	4167	14.58
	EPA SAMPLE NO.						
01	PB104842BS	8837	8.48	17399	11.33	8635	15.08
02	PB104842BSD	8478	8.47	17910	11.33	8795	15.06
03	FT-PZ-462S-20171202	7597	8.48	16704	11.33	9954	15.08
04	FT-PZ-462I-20171202	7173	8.48	15828	11.33	9245	15.07
05	FT-PZ-455S-20171202	7462	8.48	16016	11.33	9024	15.07
06	FT-PZ-455I-20171202	7419	8.47	17155	11.33	9689	15.08
07	FT-PZ-453S-20171202	7103	8.47	16187	11.33	9022	15.06
08	PB104842BL	7265	8.48	15072	11.33	7388	15.06
09	FT-PZ-456I-20171204	7768	8.48	16677	11.33	9610	15.07
10	FT-PZ-461I-20171204	7862	8.49	18120	11.33	10558	15.08

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form VIII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: I6740 SAS No.: I6740 SDG NO.: I6740

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/08/2017

Lab File ID: BE094950.D Time Analyzed: 14:34

Instrument ID: BNA_E GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	19926	17.77	20963	21.88	17662	24.57
	UPPER LIMIT	39852	18.27	41926	22.38	35324	25.07
	LOWER LIMIT	9963	17.27	10481.5	21.38	8831	24.07
	EPA SAMPLE NO.						
01	PB104842BS	19640	17.77	19818	21.89	17424	24.56
02	PB104842BSD	19696	17.77	19257	21.89	16607	24.56
03	FT-PZ-462S-20171202	23378	17.77	23700	21.88	20200	24.56
04	FT-PZ-462I-20171202	22491	17.77	22062	21.89	19146	24.56
05	FT-PZ-455S-20171202	21906	17.77	21607	21.89	18807	24.56
06	FT-PZ-455I-20171202	23946	17.77	23330	21.88	19880	24.56
07	FT-PZ-453S-20171202	21315	17.77	21951	21.89	19368	24.57
08	PB104842BL	18507	17.77	18305	21.89	16001	24.56
09	FT-PZ-456I-20171204	23426	17.79	22696	21.89	19770	24.57
10	FT-PZ-461I-20171204	25647	17.79	25994	21.88	22470	24.57

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form VIII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: I6740 SAS No.: I6740 SDG NO.: I6740

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/09/2017

Lab File ID: BE094964.D Time Analyzed: 00:24

Instrument ID: BNA_E GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	6269	8.47	15009	11.33	8693	15.08
	UPPER LIMIT	12538	8.97	30018	11.83	17386	15.58
	LOWER LIMIT	3134.5	7.97	7504.5	10.83	4346.5	14.58
	EPA SAMPLE NO.						
01	FT-DUP06-20171204	7615	8.48	16455	11.33	9350	15.08
02	FT-PZ-460I-20171204	8025	8.48	17170	11.33	9997	15.08
03	FT-PZ-457S-20171204	7966	8.48	17190	11.33	9665	15.08

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form VIII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: I6740 SAS No.: I6740 SDG NO.: I6740

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/09/2017

Lab File ID: BE094964.D Time Analyzed: 00:24

Instrument ID: BNA_E GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	21570	17.79	22846	21.89	17926	24.56
	UPPER LIMIT	43140	18.29	45692	22.39	35852	25.06
	LOWER LIMIT	10785	17.29	11423	21.39	8963	24.06
	EPA SAMPLE NO.						
01	FT-DUP06-20171204	23107	17.79	22008	21.88	19043	24.56
02	FT-PZ-460I-20171204	23943	17.77	24553	21.89	20757	24.56
03	FT-PZ-457S-20171204	23772	17.77	24750	21.89	22194	24.56

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form VIII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: I6740 SAS No.: I6740 SDG NO.: I6740

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/11/2017

Lab File ID: BE094971.D Time Analyzed: 12:30

Instrument ID: BNA_E GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	7677	8.48	16502	11.33	9316	15.08
	UPPER LIMIT	15354	8.98	33004	11.83	18632	15.58
	LOWER LIMIT	3838.5	7.98	8251	10.83	4658	14.58
	EPA SAMPLE NO.						
01	FT-PZ-456S-20171204	7649	8.48	17599	11.33	9819	15.08
02	FT-PZ-460I-20171204DL	8503	8.48	17708	11.33	9687	15.08

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form VIII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: I6740 SAS No.: I6740 SDG NO.: I6740

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/11/2017

Lab File ID: BE094971.D Time Analyzed: 12:30

Instrument ID: BNA_E GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	22709	17.79	25141	21.88	19492	24.57
	UPPER LIMIT	45418	18.29	50282	22.38	38984	25.07
	LOWER LIMIT	11354.5	17.29	12570.5	21.38	9746	24.07
	EPA SAMPLE NO.						
01	FT-PZ-456S-20171204	24141	17.79	25117	21.89	20175	24.57
02	FT-PZ-460I-20171204DL	24723	17.79	26029	21.89	21365	24.57

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form VIII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: I6740 SAS No.: I6740 SDG No.: I6740

Instrument ID: BNA_E Calibration Date(s): 11/30/2017 11/30/2017

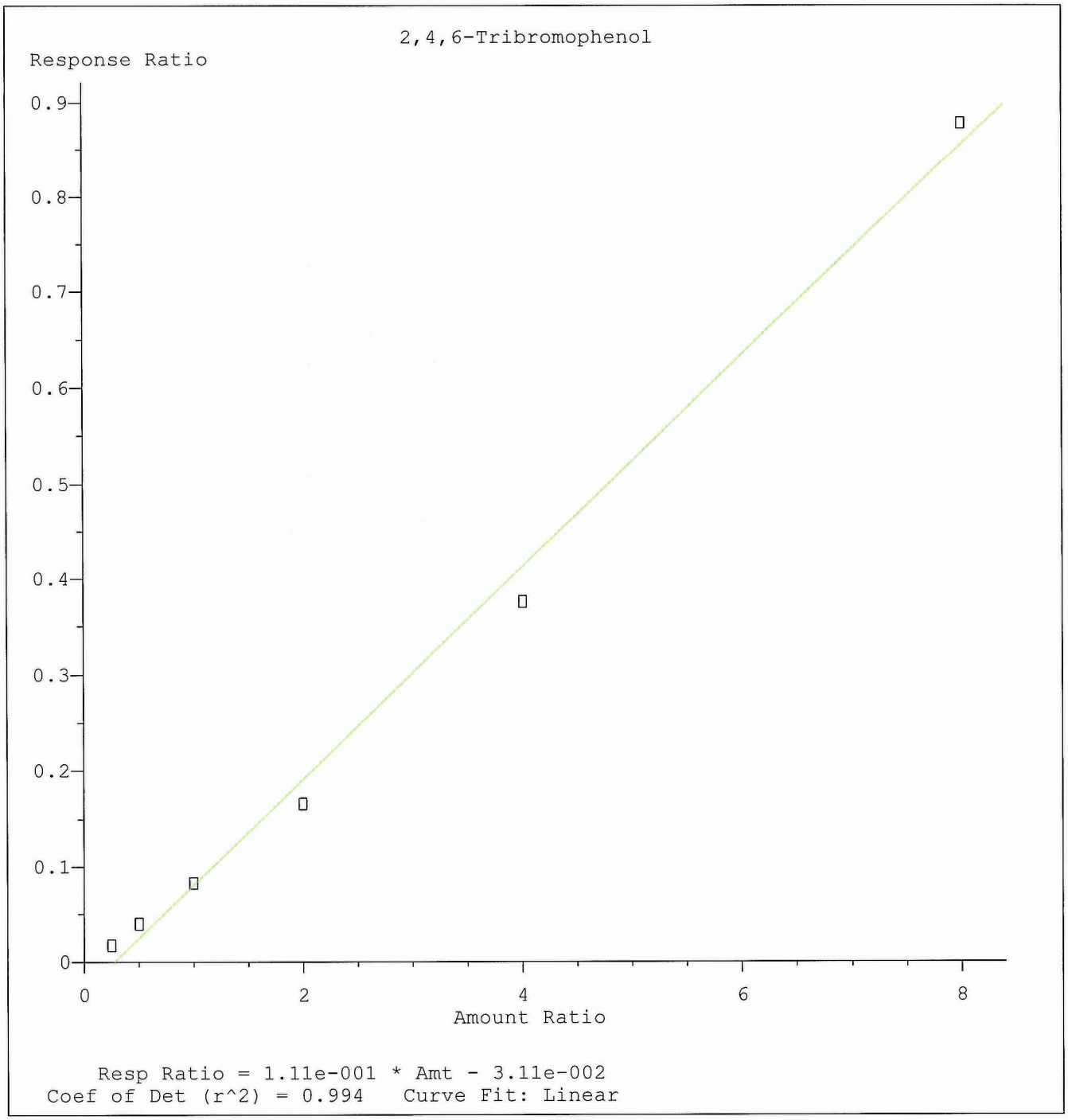
Calibration Time(s): 12:37 15:36

LAB FILE ID: RRF0.1 = BE094888.D RRF0.2 = BE094889.D RRF0.4 = BE094890.D
RRF0.8 = BE094891.D RRF1.6 = BE094892.D RRF3.2 = BE094893.D

COMPOUND	RRF0.1	RRF0.2	RRF0.4	RRF0.8	RRF1.6	RRF3.2	RRF	% RSD
2-Methylnaphthalene-d10	0.627	0.628	0.639	0.624	0.672	0.639	0.638	2.8
Fluoranthene-d10	5.555	5.295	5.414	5.323	5.710	5.499	5.466	2.8
2-Fluorophenol	0.642	0.616	0.639	0.620	0.642	0.638	0.633	1.8
Phenol-d6	0.924	0.897	0.942	0.930	0.969	0.967	0.938	2.9
Nitrobenzene-d5	0.188	0.235	0.235	0.229	0.265	0.268	0.237	12.2
2-Fluorobiphenyl	1.710	1.701	1.736	1.691	1.738	1.702	1.713	1.1
2,4,6-Tribromophenol	0.070	0.080	0.083	0.082	0.094	0.110	0.086	15.8
Terphenyl-d14	0.742	0.714	0.730	0.721	0.768	0.758	0.739	2.9
1,4-Dioxane	0.519	0.365	0.445	0.401	0.407	0.374	0.419	13.6

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



Method Name: Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE113017.M
Calibration Table Last Updated: Fri Dec 01 13:33:28 2017

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: I6740 SAS No.: I6740 SDG No.: I6740

Instrument ID: BNA_E Calibration Date/Time: 12/08/2017 14:34

Lab File ID: BE094950.D Init. Calib. Date(s): 11/30/2017 11/30/2017

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:37 15:36

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.638	0.638		0.0	20.0
Fluoranthene-d10	5.466	5.123		-6.3	20.0
2-Fluorophenol	0.633	0.661		4.4	20.0
Phenol-d6	0.938	1.008		7.5	20.0
Nitrobenzene-d5	0.237	0.273		15.2	20.0
2-Fluorobiphenyl	1.713	1.708		-0.3	20.0
2,4,6-Tribromophenol	0.086	0.086		0.0	20.0
Terphenyl-d14	0.739	0.779		5.4	20.0
1,4-Dioxane	0.419	0.389		-7.2	20.0

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: I6740 SAS No.: I6740 SDG No.: I6740

Instrument ID: BNA_E Calibration Date/Time: 12/08/2017 23:07

Lab File ID: BE094962.D Init. Calib. Date(s): 11/30/2017 11/30/2017

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:37 15:36

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.638	0.645		1.1	50.0
Fluoranthene-d10	5.466	5.114		-6.4	50.0
2-Fluorophenol	0.633	0.611		-3.5	50.0
Phenol-d6	0.938	0.921		-1.8	50.0
Nitrobenzene-d5	0.237	0.341		43.9	50.0
2-Fluorobiphenyl	1.713	1.764		3.0	50.0
2,4,6-Tribromophenol	0.086	0.107		24.4	50.0
Terphenyl-d14	0.739	0.803		8.7	50.0
1,4-Dioxane	0.419	0.369		-11.9	50.0

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: I6740 SAS No.: I6740 SDG No.: I6740

Instrument ID: BNA_E Calibration Date/Time: 12/09/2017 00:24

Lab File ID: BE094964.D Init. Calib. Date(s): 11/30/2017 11/30/2017

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:37 15:36

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.638	0.640		0.3	20.0
Fluoranthene-d10	5.466	4.914		-10.1	20.0
2-Fluorophenol	0.633	0.685		8.2	20.0
Phenol-d6	0.938	1.065		13.5	20.0
Nitrobenzene-d5	0.237	0.315		32.9	20.0
2-Fluorobiphenyl	1.713	1.707		-0.3	20.0
2,4,6-Tribromophenol	0.086	0.105		22.1	20.0
Terphenyl-d14	0.739	0.751		1.6	20.0
1,4-Dioxane	0.419	0.397		-5.3	20.0

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: I6740 SAS No.: I6740 SDG No.: I6740

Instrument ID: BNA_E Calibration Date/Time: 12/09/2017 03:21

Lab File ID: BE094969.D Init. Calib. Date(s): 11/30/2017 11/30/2017

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:37 15:36

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.638	0.646		1.3	50.0
Fluoranthene-d10	5.466	4.860		-11.1	50.0
2-Fluorophenol	0.633	0.629		-0.6	50.0
Phenol-d6	0.938	0.940		0.2	50.0
Nitrobenzene-d5	0.237	0.331		39.7	50.0
2-Fluorobiphenyl	1.713	1.712		-0.1	50.0
2,4,6-Tribromophenol	0.086	0.112		30.2	50.0
Terphenyl-d14	0.739	0.797		7.8	50.0
1,4-Dioxane	0.419	0.390		-6.9	50.0

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: I6740 SAS No.: I6740 SDG No.: I6740

Instrument ID: BNA_E Calibration Date/Time: 12/11/2017 12:30

Lab File ID: BE094971.D Init. Calib. Date(s): 11/30/2017 11/30/2017

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:37 15:36

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.638	0.631		-1.1	20.0
Fluoranthene-d10	5.466	5.088		-6.9	20.0
2-Fluorophenol	0.633	0.577		-8.8	20.0
Phenol-d6	0.938	0.853		-9.1	20.0
Nitrobenzene-d5	0.237	0.290		22.4	20.0
2-Fluorobiphenyl	1.713	1.724		0.6	20.0
2,4,6-Tribromophenol	0.086	0.086		0.0	20.0
Terphenyl-d14	0.739	0.748		1.2	20.0
1,4-Dioxane	0.419	0.386		-7.9	20.0

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: I6740 SAS No.: I6740 SDG No.: I6740

Instrument ID: BNA_E Calibration Date/Time: 12/11/2017 15:26

Lab File ID: BE094974.D Init. Calib. Date(s): 11/30/2017 11/30/2017

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:37 15:36

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.638	0.652		2.2	50.0
Fluoranthene-d10	5.466	4.994		-8.6	50.0
2-Fluorophenol	0.633	0.592		-6.5	50.0
Phenol-d6	0.938	0.916		-2.3	50.0
Nitrobenzene-d5	0.237	0.346		46.0	50.0
2-Fluorobiphenyl	1.713	1.716		0.2	50.0
2,4,6-Tribromophenol	0.086	0.085		-1.2	50.0
Terphenyl-d14	0.739	0.739		0.0	50.0
1,4-Dioxane	0.419	0.470		12.2	50.0

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Quantitation Report (QT Reviewed)

Sample Results: **BE094973.D**

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA E\DATA\BE121117\
Data File : BE094973.D
Acq On : 11 Dec 2017 14:38
Operator : SJ/JU
Sample : I6740-12DL 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
FT-PZ-460I-20171204DL

Manual Integrations
APPROVED
Sohil
12/11/2017 6:24:10 PM

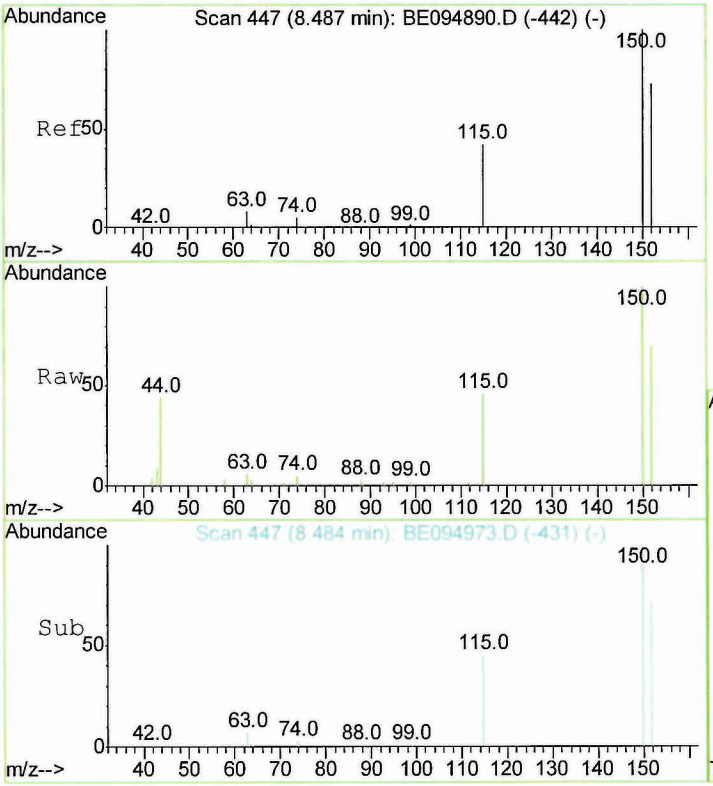
Quant Time: Dec 11 16:01:20 2017
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 01 13:33:28 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.48	152	8503	0.40 ng	0.00
7) Naphthalene-d8	11.33	136	17708	0.40 ng	0.00
13) Acenaphthene-d10	15.08	164	9687	0.40 ng	0.00
19) Phenanthrene-d10	17.79	188	24723	0.40 ng	0.02
27) Chrysene-d12	21.89	240	26029	0.40 ng	0.00
34) Perylene-d12	24.57	264	21365	0.40 ng	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	5.95	112	883	0.07 ng	0.00
5) Phenol-d6	7.60	99	975	0.05 ng	0.00
8) Nitrobenzene-d5	9.66	82	2605	0.25 ng	0.00
11) 2-Methylnaphthalene-d10	12.87	152	4649	0.16 ng	0.00
14) 2,4,6-Tribromophenol	16.55	330	390	0.26 ng	0.02
15) 2-Fluorobiphenyl	13.71	172	12148	0.29 ng	0.00
25) Fluoranthene-d10	19.77	212	51867	0.15 ng	0.00
29) Terphenyl-d14	20.33	244	14674	0.31 ng	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.66	88	14446	1.624 ng #	87
22) Pentachlorophenol	17.43	266	141	0.165 ng	91
23) Phenanthrene	17.82	178	2604	0.033 ng #	93
30) Benzo(a)anthracene	21.87	228	2154	0.027 ng #	66
31) Chrysene	21.92	228	1916m	0.022 ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
BNA_E
ClientSampleId :
FT-PZ-460I-20171204DL

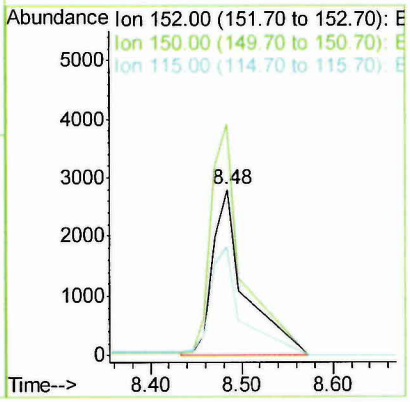
Manual Integrations
APPROVED
Sohil
12/11/2017 6:24:10 PM

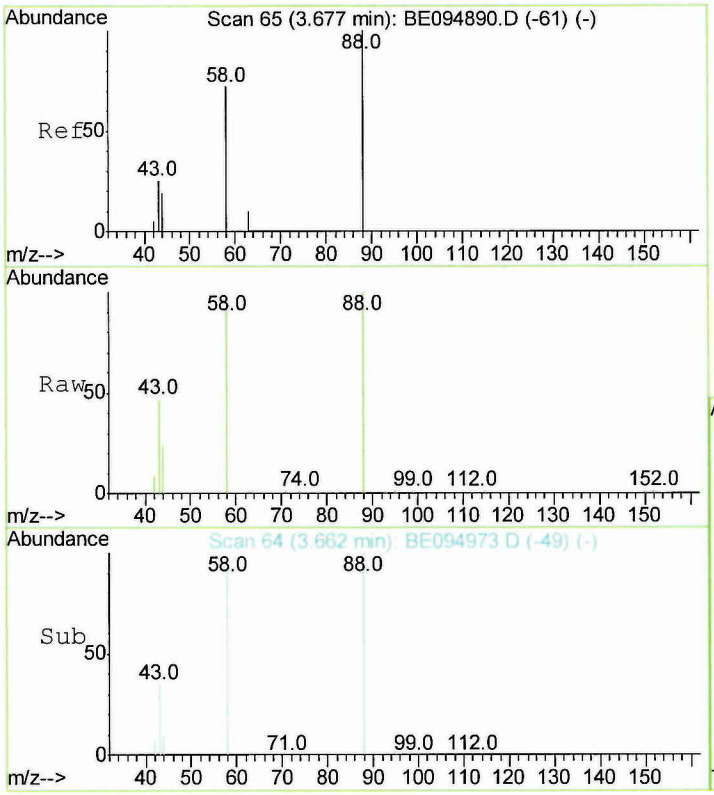


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.48 min Scan# 447
Delta R.T. -0.00 min
Lab File: BE094973.D
Acq: 11 Dec 2017 14:38

Tgt Ion:152 Resp: 8503

Ion	Ratio	Lower	Upper
152	100		
150	140.2	117.2	175.8
115	64.9	57.0	85.6

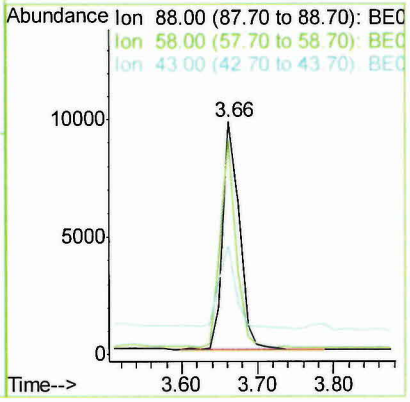




#2
1,4-Dioxane
Concen: 1.624 ng
RT: 3.66 min Scan# 64
Delta R.T. -0.02 min
Lab File: BE094973.D
Acq: 11 Dec 2017 14:38

Tgt Ion: 88 Resp: 14446

Ion	Ratio	Lower	Upper
88	100		
58	86.8	63.2	94.8
43	37.2	41.2	61.8#



Quantitation Report (QT/LSC Reviewed)

Sample Results: **VN045521.D**

Data Path : W:\HPCHEM1\MSVOA N\DATA\VN120617\
Data File : VN045521.D
Acq On : 6 Dec 2017 17:01
Operator : MD\SY
Sample : I6740-11
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 16 Sample Multiplier: 1

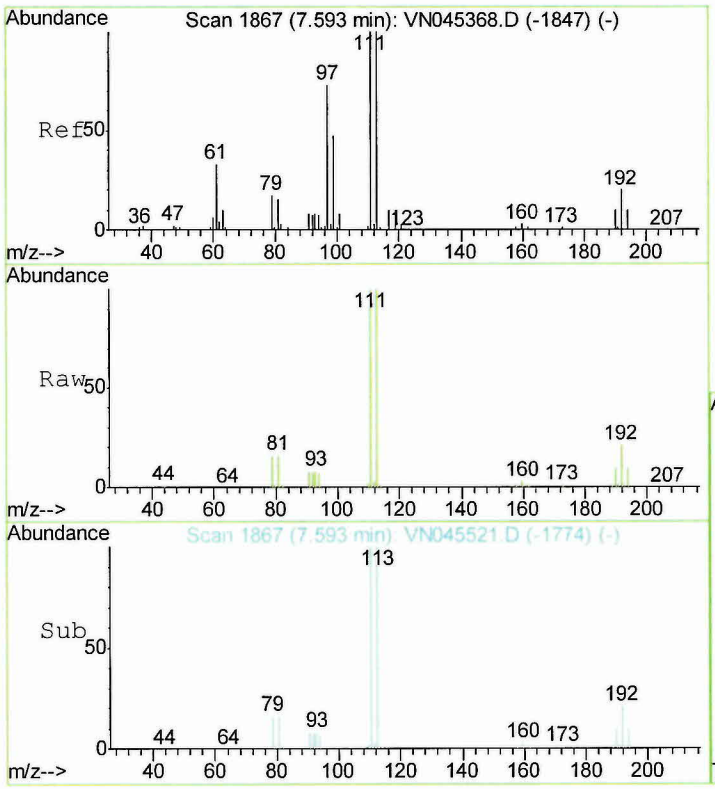
Instrument :
MSVOA_N
ClientSampleId :
FT-DUP06-20171204

Quant Time: Dec 07 09:54:23 2017
Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\82N0113017W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 30 15:35:15 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	769192	50.00 ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1275458	50.00 ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1110368	50.00 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	340554	50.00 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	8.03	65	493001	51.18 ug/l	0.00
Spiked Amount 50.000			Recovery	= 102.36%	
35) Dibromofluoromethane	7.59	113	415176	49.34 ug/l	0.00
Spiked Amount 50.000			Recovery	= 98.68%	
50) Toluene-d8	10.09	98	1586670	48.83 ug/l	0.00
Spiked Amount 50.000			Recovery	= 97.66%	
62) 4-Bromofluorobenzene	12.41	95	452414	43.87 ug/l	0.00
Spiked Amount 50.000			Recovery	= 87.74%	
Target Compounds					Qvalue
12) 1,1-Dichloroethene	3.74	96	6079	0.82 ug/l	85
24) 1,1-Dichloroethane	5.85	63	15743	0.93 ug/l #	95
27) cis-1,2-Dichloroethene	6.82	96	14208	1.55 ug/l	95
44) Trichloroethene	8.84	130	181936	20.55 ug/l	92
64) Tetrachloroethene	10.63	164	3673	0.47 ug/l	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

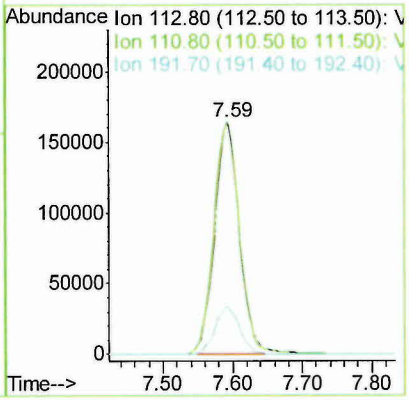
Instrument :
MSVOA_N
ClientSampleId :
FT-DUP06-20171204

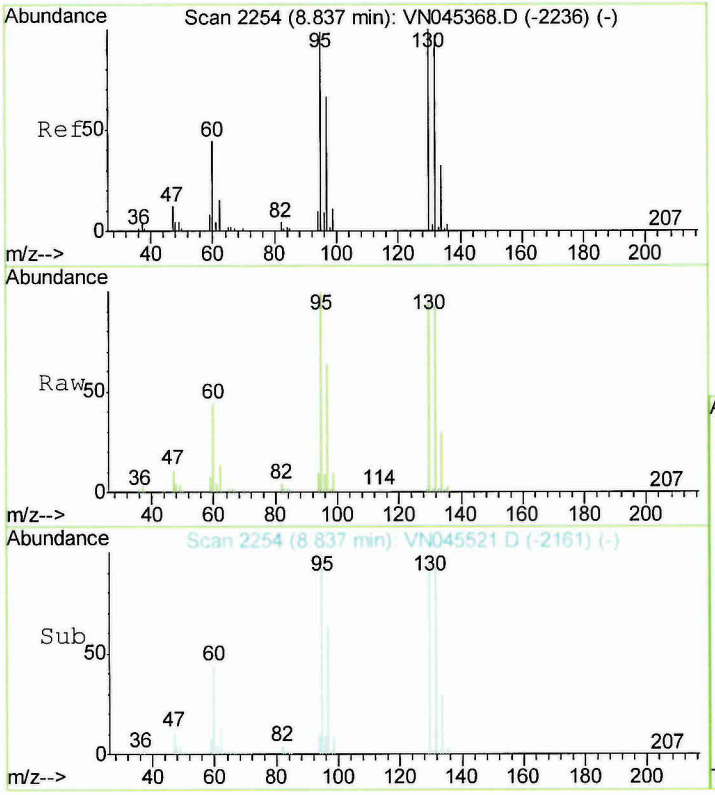


#35
Dibromofluoromethane
Concen: 49.34 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN045521.D
Acq: 6 Dec 2017 17:01

Tgt Ion:113 Resp: 415176

Ion	Ratio	Lower	Upper
113	100		
111	101.3	81.5	122.3
192	20.3	18.0	27.0

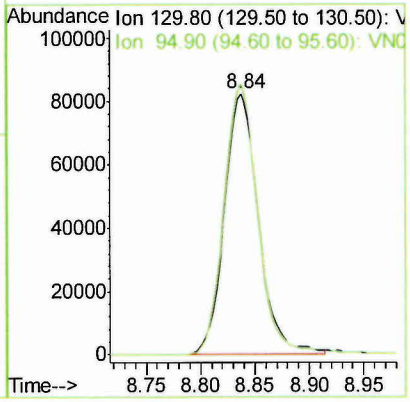




#44
Trichloroethene
Concen: 20.55 ug/l
RT: 8.84 min Scan# 2254
Delta R.T. -0.00 min
Lab File: VN045521.D
Acq: 6 Dec 2017 17:01

Tgt Ion:130 Resp: 181936

Ion	Ratio	Lower	Upper
130	100		
95	103.9	0.0	192.4



APPENDIX C

TABLES SUMMARIZING HISTORICAL (2012 to 2017) ANALYTICAL GROUNDWATER RESULTS

Table C-1
Groundwater Analytical Results (2012 through 2017)
NWIRP Calverton, New York

Location	FTMW01I						FTMW01S				FTMW02I					
						(Dup)								(Dup)		(Dup)
Date	9/26/2013	9/17/2014	9/18/2015	9/28/2016	11/30/2017	11/30/2017	9/17/2014	9/18/2015	9/28/2016	11/30/2017	9/26/2013	9/17/2014	9/18/2015	9/18/2015	9/29/2016	9/29/2016
VOLATILES (µg/Kg)																
1,1,1-TRICHLOROETHANE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
1,1,2,2-TETRACHLOROETHANE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	< 0.50 U	< 0.60 UJ	< 0.60 UJ	< 0.60 U	NA	NA	< 0.60 UJ	< 0.60 UJ	< 0.60 U	NA	< 0.50 U	< 0.60 UJ	< 0.60 UJ	< 0.60 UJ	< 0.60 U	< 0.60 U
1,1,2-TRICHLOROETHANE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
1,1-DICHLOROETHANE	< 0.50 U	< 0.60 U	< 0.60 U	< 1.0 U	NA	NA	< 0.60 U	< 0.60 U	< 1.0 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 1.0 U	< 1.0 U
1,1-DICHLOROETHENE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
1,2,3-TRICHLOROBENZENE	NA	NA	NA	< 0.60 U	NA	NA	NA	NA	< 0.60 U	NA	NA	NA	NA	NA	< 0.60 U	< 0.60 U
1,2,4-TRICHLOROBENZENE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
1,2-DIBROMO-3-CHLOROPROPANE	< 0.75 U	< 1.0 U	< 1.0 U	< 2.0 UJ	NA	NA	< 1.0 U	< 1.0 U	< 2.0 UJ	NA	< 0.75 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 UJ	< 2.0 UJ
1,2-DIBROMOETHANE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
1,2-DICHLOROBENZENE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
1,2-DICHLOROETHANE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
1,2-DICHLOROPROPANE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
1,3,5-TRICHLOROBENZENE	NA	NA	NA	< 0.60 U	NA	NA	NA	NA	< 0.60 U	NA	NA	NA	NA	NA	< 0.60 U	< 0.60 U
1,3-DICHLOROBENZENE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
1,4-DICHLOROBENZENE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
2-BUTANONE	< 2.5 U	< 5.0 U	< 5.0 U	< 5.0 U	NA	NA	< 5.0 U	< 5.0 U	< 5.0 U	NA	< 2.5 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-CHLOROETHYL VINYL ETHER	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-HEXANONE	< 2.5 U	< 0.60 U	< 0.60 UJ	< 1.0 U	NA	NA	< 0.60 U	< 0.60 UJ	< 1.0 U	NA	< 2.5 U	< 0.60 U	< 0.60 UJ	< 0.60 UJ	< 1.0 U	< 1.0 U
4-METHYL-2-PENTANONE	< 2.5 U	< 0.60 U	< 0.60 UJ	< 0.60 U	NA	NA	< 0.60 U	< 0.60 UJ	< 0.60 U	NA	< 2.5 U	< 0.60 U	< 0.60 UJ	< 0.60 UJ	< 0.60 U	< 0.60 U
ACETONE	< 2.5 U	< 10 U	< 4.0 U	< 10 U	NA	NA	< 10 U	< 4.0 U	< 10 U	NA	< 2.5 U	< 10 U	3.0 J	< 4.0 U	< 10 U	< 10 U
BENZENE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
BROMODICHLOROMETHANE	< 0.50 U	< 0.60 U	< 0.60 UJ	< 0.60 U	NA	NA	< 0.60 U	< 0.60 UJ	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 UJ	< 0.60 UJ	< 0.60 U	< 0.60 U
BROMODICHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BROMOFORM	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
BROMOMETHANE	< 1.0 U	R	< 4.0 U	< 1.0 UJ	NA	NA	R	< 4.0 U	< 1.0 UJ	NA	< 1.0 U	R	< 4.0 U	< 4.0 U	< 1.0 UJ	< 1.0 UJ
CARBON DISULFIDE	< 0.50 U	< 0.60 UJ	< 0.60 U	< 0.60 U	NA	NA	< 0.60 UJ	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 UJ	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
CARBON TETRACHLORIDE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
CHLOROBENZENE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
CHLORODIBROMOMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHLOROETHANE	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	NA	NA	< 1.0 U	< 1.0 U	< 1.0 U	NA	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
CHLOROFORM	< 0.50 U	0.33 J	0.64 J	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	0.25 J	0.30 J	0.25 J	< 0.60 U	< 0.60 U
CHLOROMETHANE	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
CIS-1,2-DICHLOROETHENE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
CIS-1,3-DICHLOROPROPENE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
CYCLOHEXANE	< 0.50 U	< 1.0 U	< 1.0 UJ	< 0.60 U	NA	NA	< 1.0 U	< 1.0 UJ	< 0.60 U	NA	< 0.50 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 0.60 U	< 0.60 U
DIBROMOCHLOROMETHANE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ	NA	NA	< 0.60 U	< 0.60 U	< 0.60 UJ	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 UJ	< 0.60 UJ
DICHLORODIFLUOROMETHANE	< 1.0 U	< 0.60 UJ	< 0.60 UJ	< 0.60 U	NA	NA	< 0.60 UJ	< 0.60 UJ	< 0.60 U	NA	< 1.0 U	< 0.60 UJ	< 0.60 UJ	< 0.60 UJ	< 0.60 U	< 0.60 U
ETHYLBENZENE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
ISOPROPYLBENZENE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
M- AND P-XYLENE	< 1.0 U	< 1.2 U	< 1.2 U	< 1.2 U	NA	NA	< 1.2 U	< 1.2 U	< 1.2 U	NA	< 1.0 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U
METHYL ACETATE	< 0.75 U	< 1.0 U	< 1.0 U	< 1.0 U	NA	NA	< 1.0 U	< 1.0 U	< 1.0 U	NA	< 0.75 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
METHYL CYCLOHEXANE	< 0.50 U	< 1.0 U	< 1.0 U	< 0.60 U	NA	NA	< 1.0 U	< 1.0 U	< 0.60 U	NA	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.60 U	< 0.60 U
METHYL TERT-BUTYL ETHER	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
METHYLENE CHLORIDE	< 2.5 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 2.5 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
NAPHTHALENE	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
O-XYLENE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
STYRENE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U

Table C-1
Groundwater Analytical Results (2012 through 2017)
NWIRP Calverton, New York

Location	FTMW01I						FTMW01S				FTMW02I					
						(Dup)							(Dup)			(Dup)
Date	9/26/2013	9/17/2014	9/18/2015	9/28/2016	11/30/2017	11/30/2017	9/17/2014	9/18/2015	9/28/2016	11/30/2017	9/26/2013	9/17/2014	9/18/2015	9/18/2015	9/29/2016	9/29/2016
TETRACHLOROETHENE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
TOLUENE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
TRANA-1,2-DICHLOROETHENE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
TRANA-1,3-DICHLOROPROPENE	< 0.50 U	< 0.60 U	< 0.60 UJ	< 0.60 UJ	NA	NA	< 0.60 U	< 0.60 UJ	< 0.60 UJ	NA	< 0.50 U	< 0.60 U	< 0.60 UJ	< 0.60 UJ	< 0.60 UJ	< 0.60 UJ
TRICHLOROETHENE	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
TRICHLOROFLUOROMETHANE	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
VINYL CHLORIDE	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
XYLENES, TOTAL	< 1.5 U	< 1.8 U	< 1.8 U	< 1.8 U	NA	NA	< 1.8 U	< 1.8 U	< 1.8 U	NA	< 1.5 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U
1,4-DIOXANE (8270 SIM)	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	0.05 UJ	NA	NA	NA	NA	NA	NA

(DUP) = Indicates a field duplicate sample.
All results are in micrograms per liter (µg/L)
Data Qualifiers:
< = Not detected; detection limit is shown.
U = Not detected above detection limits.
J = Estimated value.
R = Rejected value not reported.
NA = Not Analyzed

Table C-1
Groundwater Analytical Results (2012 through 2017)
NWIRP Calverton, New York

Location	FTMW02I	FTMW02S					FTMW03S					FTMW05I				
													(DUP)		(Dup)	
Date	11/30/2017	9/26/2013	9/17/2014	9/18/2015	9/29/2016	11/30/2017	9/26/2013	9/17/2014	9/24/2015	9/29/2016	11/30/2017	9/26/2013	9/26/2013	9/18/2014	9/18/2014	9/23/2015
VOLATILES (µg/Kg)																
1,1,1-TRICHLOROETHANE	0.75 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.75 U	2.1 J	25	< 0.60 U	9.1	4.8 J	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
1,1,2,2-TETRACHLOROETHANE	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	0.5 U	< 0.50 U	< 0.60 UJ	< 0.60 UJ	< 0.60 U	0.5 U	< 0.50 U	7.6 J	4.4 J	2.2 J+	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
1,1,2-TRICHLOROETHANE	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 UJ	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
1,1-DICHLOROETHANE	0.5 U	2.6 J	1.8	2.2	2.1	0.5 U	< 0.50 U	37	7.1	5.0	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
1,1-DICHLOROETHENE	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
1,2,3-TRICHLOROBENZENE	0.5 U	NA	NA	NA	< 0.60 U	0.5 U	NA	NA	NA	< 0.60 U	0.5 U	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	0.5 U	< 0.50 U	0.56 J	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 UJ	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 UJ	< 0.60 UJ	< 0.60 UJ
1,2-DIBROMO-3-CHLOROPROPANE	2 U	< 0.75 U	< 1.0 U	< 1.0 U	< 2.0 UJ	2 U	< 0.75 U	< 1.0 U	< 1.0 U	< 2.0 UJ	2 U	< 0.75 U	< 0.75 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-DIBROMOETHANE	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 UJ	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
1,2-DICHLOROBENZENE	0.5 U	3.0 J	2.6	3.5	2.8	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
1,2-DICHLOROETHANE	0.75 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.75 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.75 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
1,2-DICHLOROPROPANE	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
1,3,5-TRICHLOROBENZENE	NA	NA	NA	NA	< 0.60 U	NA NA	NA	NA	NA	< 0.60 U	NA NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
1,4-DICHLOROBENZENE	0.5 U	0.96 J	< 0.60 U	1.2	1.1	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
2-BUTANONE	2.5 U	< 2.5 UJ	< 5.0 U	< 5.0 U	< 5.0 U	1.9 J	< 2.5 U	< 5.0 U	< 5.0 U	< 5.0 U	2.5 U	< 2.5 UJ	< 2.5 UJ	< 5.0 U	< 5.0 U	< 5.0 U
2-CHLOROETHYL VINYL ETHER	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-HEXANONE	3.8 U	< 2.5 U	< 0.60 U	< 0.60 UJ	< 1.0 U	3.8 U	< 2.5 U	< 0.60 U	< 0.60 U	< 1.0 U	3.8 U	< 2.5 U	< 2.5 U	< 0.60 UJ	< 0.60 UJ	< 0.60 U
4-METHYL-2-PENTANONE	2.5 U	< 2.5 U	< 0.60 U	< 0.60 UJ	< 0.60 U	2.5 U	< 2.5 U	< 0.60 U	< 0.60 U	< 0.60 U	2.5 U	< 2.5 U	< 2.5 U	< 0.60 UJ	< 0.60 UJ	< 0.60 U
ACETONE	2.5 U	18 J	13 J+	7.6 J	< 10 U	5 J	< 2.5 U	< 10 U	< 10 UJ	< 10 U	2.5 J	< 2.5 UJ	< 5.0 UJ	< 10 U	< 10 U	< 10 UJ
BENZENE	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
BROMODICHLOROMETHANE	NA	< 0.50 U	< 0.60 U	< 0.60 UJ	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
BROMODICHLOROMETHANE	0.5 U	NA	NA	NA	NA	0.5 U	NA	NA	NA	NA	0.5 U	NA	NA	NA	NA	NA
BROMOFORM	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
BROMOMETHANE	0.5 U	< 1.0 U	R	< 4.0 U	< 1.0 UJ	0.5 U	< 1.0 U	R	< 4.0 U	< 1.0 UJ	0.5 U	< 1.0 U	< 1.0 U	< 4.0 UJ	< 4.0 UJ	< 4.0 U
CARBON DISULFIDE	0.5 U	< 0.50 U	0.43 J	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.60 UJ	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 UJ	< 0.60 UJ	< 0.60 U
CARBON TETRACHLORIDE	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
CHLOROBENZENE	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
CHLORODIBROMOMETHANE	0.5 U	NA	NA	NA	NA	0.5 U	NA	NA	NA	NA	0.5 U	NA	NA	NA	NA	NA
CHLOROETHANE	0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.5 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
CHLOROFORM	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.80 J	0.87 J	0.69 J	0.66 J	0.31 J
CHLOROMETHANE	0.5 U	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 1.0 U	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U
CIS-1,2-DICHLOROETHENE	0.5 U	3.5 J	0.36 J	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
CIS-1,3-DICHLOROPROPENE	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
CYCLOHEXANE	0.5 U	< 0.50 U	< 1.0 U	< 1.0 UJ	< 0.60 U	0.5 U	< 0.50 U	< 1.0 U	< 1.0 UJ	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
DIBROMOCHLOROMETHANE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ	NA NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ	NA NA	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
DICHLORODIFLUOROMETHANE	0.5 U	< 1.0 U	< 0.60 UJ	< 0.60 UJ	< 0.60 U	0.5 U	< 1.0 U	< 0.60 UJ	< 0.60 UJ	< 0.60 U	0.5 U	< 1.0 U	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 UJ
ETHYLBENZENE	0.5 U	2.4 J	4.3	5.2	4.4	0.94 J	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
ISOPROPYLBENZENE	0.5 U	1.9 J	2.0	1.7	2.2	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
M- AND P-XYLENE	1 U	0.67 J	0.85 J	0.94 J	< 1.2 U	1 U	< 1.0 U	< 1.2 U	< 1.2 U	< 1.2 U	1 U	< 1.0 U	< 1.0 U	< 1.2 U	< 1.2 U	< 1.2 U
METHYL ACETATE	2 U	< 0.75 UJ	< 1.0 U	< 1.0 U	< 1.0 U	2 U	< 0.75 U	< 1.0 U	< 1.0 U	< 1.0 U	2 U	< 0.75 UJ	< 0.75 UJ	< 1.0 U	< 1.0 U	< 1.0 U
METHYL CYCLOHEXANE	0.5 U	< 0.50 U	< 1.0 U	< 1.0 U	< 0.60 U	0.5 U	< 0.50 U	< 1.0 U	< 1.0 UJ	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U	< 1.0 U
METHYL TERT-BUTYL ETHER	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
METHYLENE CHLORIDE	0.5 U	< 2.5 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 2.5 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 2.5 U	< 2.5 U	< 0.60 U	< 0.60 U	< 2.0 U
NAPHTHALENE	0.5 U	NA	0.95 J	< 0.60 U	0.56 J	0.5 U	NA	< 0.60 U	< 0.60 UJ	< 0.60 U	0.5 U	NA	NA	< 0.60 U	< 0.60 U	< 0.60 UJ
O-XYLENE	0.5 U	2.8 J	2.2	1.4	0.51 J	2.2 J	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
STYRENE	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U

Table C-1
Groundwater Analytical Results (2012 through 2017)
NWIRP Calverton, New York

Location	FTMW02I	FTMW02S					FTMW03S					FTMW05I				
													(DUP)		(Dup)	
Date	11/30/2017	9/26/2013	9/17/2014	9/18/2015	9/29/2016	11/30/2017	9/26/2013	9/17/2014	9/24/2015	9/29/2016	11/30/2017	9/26/2013	9/26/2013	9/18/2014	9/18/2014	9/23/2015
TETRACHLOROETHENE	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.45 J	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
TOLUENE	0.5 U	0.29 J	0.57 J	0.81 J	< 0.60 U	0.99 J	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
TRANA-1,2-DICHLOROETHENE	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
TRANA-1,3-DICHLOROPROPENE	0.5 U	< 0.50 U	< 0.60 U	< 0.60 UJ	< 0.60 UJ	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
TRICHLOROETHENE	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	1.4 J	4.0	0.50 J	0.78 J	0.41 J	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
TRICHLOROFLUOROMETHANE	0.5 U	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 1.0 U	< 0.60 U	< 0.60 UJ	< 0.60 U	0.5 U	< 1.0 U	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U
VINYL CHLORIDE	0.5 U	< 1.0 U	< 0.60 U	< 0.60 U	0.77 J	0.55 J	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 1.0 U	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U
XYLENES, TOTAL	1.5 U	3.5 J	3.1	2.3 J	< 1.8 U	2.2 J	< 1.5 U	< 1.8 U	< 1.8 U	< 1.8 U	1.5 U	< 1.5 U	< 1.5 U	< 1.8 U	< 1.8 U	< 1.8 U
1,4-DIOXANE (8270 SIM)	0.05 U	NA	NA	NA	NA	0.05 UJ	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA

(DUP) = Indicates a field duplicate sample.
All results are in micrograms per liter (µg/L)
Data Qualifiers:
< = Not detected; detection limit is shown.
U = Not detected above detection limits.
J = Estimated value.
R = Rejected value not reported.
NA = Not Analyzed

Table C-1
Groundwater Analytical Results (2012 through 2017)
NWIRP Calverton, New York

Location	FTMW05I		FTMW05S					FTMW06I					FTMW06S			
Date	9/29/2016	11/30/2017	9/26/2013	9/18/2014	9/23/2015	9/29/2016	11/30/2017	9/27/2013	9/18/2014	9/24/2015	9/29/2016	11/30/2017	9/27/2013	9/18/2014	9/24/2015	9/29/2016
VOLATILES (µg/Kg)																
1,1,1-TRICHLOROETHANE	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
1,1,2,2-TETRACHLOROETHANE	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 UJ	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 UJ	< 0.60 U
1,1,2-TRICHLOROETHANE	< 0.60 U	NA	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
1,1-DICHLOROETHANE	< 1.0 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 1.0 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 1.0 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 1.0 U
1,1-DICHLOROETHENE	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
1,2,3-TRICHLOROBENZENE	< 0.60 U	NA	NA	NA	NA	< 0.60 U	NA	NA	NA	NA	< 0.60 U	NA	NA	NA	NA	< 0.60 U
1,2,4-TRICHLOROBENZENE	< 0.60 U	NA	< 0.50 U	< 0.60 UJ	< 0.60 UJ	< 0.60 U	NA	< 0.50 U	< 0.60 UJ	< 0.60 UJ	< 0.60 U	NA	< 0.50 U	< 0.60 UJ	< 0.60 UJ	< 0.60 U
1,2-DIBROMO-3-CHLOROPROPANE	< 2.0 UJ	NA	< 0.75 U	< 1.0 U	< 1.0 U	< 2.0 UJ	NA	< 0.75 U	< 1.0 U	< 1.0 U	< 2.0 UJ	NA	< 0.75 U	< 1.0 U	< 1.0 U	< 2.0 UJ
1,2-DIBROMOETHANE	< 0.60 U	NA	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
1,2-DICHLOROBENZENE	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
1,2-DICHLOROETHANE	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
1,2-DICHLOROPROPANE	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
1,3,5-TRICHLOROBENZENE	< 0.60 U	NA	NA	NA	NA	< 0.60 U	NA	NA	NA	NA	< 0.60 U	NA	NA	NA	NA	< 0.60 U
1,3-DICHLOROBENZENE	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
1,4-DICHLOROBENZENE	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
2-BUTANONE	< 5.0 U	NA	< 2.5 UJ	< 5.0 U	< 5.0 U	< 5.0 U	NA	< 2.5 U	< 5.0 U	< 5.0 U	< 5.0 U	NA	< 2.5 U	< 5.0 U	< 5.0 U	< 5.0 U
2-CHLOROETHYL VINYL ETHER	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-HEXANONE	< 1.0 U	NA	< 2.5 U	< 0.60 UJ	< 0.60 U	< 1.0 U	NA	< 2.5 U	< 0.60 UJ	< 0.60 U	< 1.0 U	NA	< 2.5 U	< 0.60 UJ	< 0.60 U	< 1.0 U
4-METHYL-2-PENTANONE	< 0.60 U	NA	< 2.5 U	< 0.60 UJ	< 0.60 U	< 0.60 U	NA	< 2.5 U	< 0.60 UJ	< 0.60 U	< 0.60 U	NA	< 2.5 U	< 0.60 UJ	< 0.60 U	< 0.60 U
ACETONE	< 10 U	NA	95 J	< 10 U	< 10 UJ	< 10 U	NA	< 2.5 U	< 10 U	< 10 UJ	< 10 U	NA	5.5 J	< 10 U	< 10 UJ	< 10 U
BENZENE	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
BROMODICHLOROMETHANE	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
BROMODICHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BROMOFORM	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
BROMOMETHANE	< 1.0 UJ	NA	< 1.0 U	< 4.0 UJ	< 4.0 U	< 1.0 UJ	NA	< 1.0 U	< 4.0 UJ	< 4.0 U	< 1.0 UJ	NA	< 1.0 U	< 4.0 UJ	< 4.0 U	< 1.0 UJ
CARBON DISULFIDE	< 0.60 U	NA	< 0.50 U	< 0.60 UJ	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 UJ	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 UJ	< 0.60 U	< 0.60 U
CARBON TETRACHLORIDE	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
CHLOROBENZENE	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
CHLORODIBROMOMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHLOROETHANE	< 1.0 U	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
CHLOROFORM	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.38 J	0.35 J	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
CHLOROMETHANE	< 0.60 U	NA	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 1.0 U	0.34 J	< 0.60 U	< 0.60 U
CIS-1,2-DICHLOROETHENE	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
CIS-1,3-DICHLOROPROPENE	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
CYCLOHEXANE	< 0.60 U	NA	< 0.50 U	< 1.0 U	< 1.0 U	< 0.60 U	NA	< 0.50 U	< 1.0 U	< 1.0 UJ	< 0.60 U	NA	< 0.50 U	< 1.0 U	< 1.0 UJ	< 0.60 U
DIBROMOCHLOROMETHANE	< 0.60 UJ	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ
DICHLORODIFLUOROMETHANE	< 0.60 U	NA	< 1.0 U	< 0.60 U	< 0.60 UJ	< 0.60 U	NA	< 1.0 U	< 0.60 U	< 0.60 UJ	< 0.60 U	NA	< 1.0 U	< 0.60 U	< 0.60 UJ	< 0.60 U
ETHYLBENZENE	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
ISOPROPYLBENZENE	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
M- AND P-XYLENE	< 1.2 U	NA	< 1.0 U	< 1.2 U	< 1.2 U	< 1.2 U	NA	< 1.0 U	< 1.2 U	< 1.2 U	< 1.2 U	NA	< 1.0 U	< 1.2 U	< 1.2 U	< 1.2 U
METHYL ACETATE	< 1.0 U	NA	< 0.75 UJ	< 1.0 U	< 1.0 U	< 1.0 U	NA	< 0.75 U	< 1.0 U	< 1.0 U	< 1.0 U	NA	< 0.75 U	< 1.0 U	< 1.0 U	< 1.0 U
METHYL CYCLOHEXANE	< 0.60 U	NA	< 0.50 U	< 1.0 U	< 1.0 U	< 0.60 U	NA	< 0.50 U	< 1.0 U	< 1.0 UJ	< 0.60 U	NA	< 0.50 U	< 1.0 U	< 1.0 UJ	< 0.60 U
METHYL TERT-BUTYL ETHER	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
METHYLENE CHLORIDE	< 0.60 U	NA	< 2.5 U	< 0.60 U	< 2.0 U	< 0.60 U	NA	< 2.5 U	< 0.60 U	< 2.0 U	< 0.60 U	NA	< 2.5 U	< 0.60 U	< 2.0 U	< 0.60 U
NAPHTHALENE	< 0.60 U	NA	NA	< 0.60 U	< 0.60 UJ	< 0.60 U	NA	NA	< 0.60 U	< 0.60 UJ	< 0.60 U	NA	NA	< 0.60 U	< 0.60 UJ	< 0.60 U
O-XYLENE	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
STYRENE	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U

Table C-1
Groundwater Analytical Results (2012 through 2017)
NWIRP Calverton, New York

Location	FTMW05I		FTMW05S					FTMW06I					FTMW06S			
Date	9/29/2016	11/30/2017	9/26/2013	9/18/2014	9/23/2015	9/29/2016	11/30/2017	9/27/2013	9/18/2014	9/24/2015	9/29/2016	11/30/2017	9/27/2013	9/18/2014	9/24/2015	9/29/2016
TETRACHLOROETHENE	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
TOLUENE	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
TRANA-1,2-DICHLOROETHENE	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
TRANA-1,3-DICHLOROPROPENE	< 0.60 UJ	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ
TRICHLOROETHENE	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U
TRICHLOROFLUOROMETHANE	< 0.60 U	NA	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 1.0 U	< 0.60 U	< 0.60 UJ	< 0.60 U	NA	< 1.0 U	< 0.60 U	< 0.60 UJ	< 0.60 U
VINYL CHLORIDE	< 0.60 U	NA	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U
XYLENES, TOTAL	< 1.8 U	NA	< 1.5 U	< 1.8 U	< 1.8 U	< 1.8 U	NA	< 1.5 U	< 1.8 U	< 1.8 U	< 1.8 U	NA	< 1.5 U	< 1.8 U	< 1.8 U	< 1.8 U
1,4-DIOXANE (8270 SIM)	NA	0.05 U	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA

(DUP) = Indicates a field duplicate sample.
All results are in micrograms per liter (µg/L)
Data Qualifiers:
< = Not detected; detection limit is shown.
U = Not detected above detection limits.
J = Estimated value.
R = Rejected value not reported.
NA = Not Analyzed

Table C-1
Groundwater Analytical Results (2012 through 2017)
NWIRP Calverton, New York

Location	FTMW06S	FTMW07S					FTMW08I					FTMW08S				
Date	11/30/2017	9/26/2013	9/18/2014	9/23/2015	9/28/2016	11/30/2017	9/26/2013	9/18/2014	9/24/2015	9/29/2016	11/29/2017	9/26/2013	9/18/2014	9/24/2015	9/29/2016	11/29/2017
VOLATILES (µg/Kg)																
1,1,1-TRICHLOROETHANE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
1,1,2,2-TETRACHLOROETHANE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 UJ	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 UJ	< 0.60 U	NA
1,1,2-TRICHLOROETHANE	NA	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
1,1-DICHLOROETHANE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 1.0 U	NA	0.28 J	< 0.60 U	0.50 J	< 1.0 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 1.0 U	NA
1,1-DICHLOROETHENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
1,2,3-TRICHLOROBENZENE	NA	NA	NA	NA	< 0.60 U	NA	NA	NA	NA	< 0.60 U	NA	NA	NA	NA	< 0.60 U	NA
1,2,4-TRICHLOROBENZENE	NA	< 0.50 U	< 0.60 U	< 0.60 UJ	< 0.60 U	NA	< 0.50 U	< 0.60 UJ	< 0.60 UJ	< 0.60 U	NA	< 0.50 U	< 0.60 UJ	< 0.60 UJ	< 0.60 U	NA
1,2-DIBROMO-3-CHLOROPROPANE	NA	< 0.75 U	< 1.0 U	< 1.0 U	< 2.0 UJ	NA	< 0.75 U	< 1.0 U	< 1.0 U	< 2.0 UJ	NA	< 0.75 U	< 1.0 U	< 1.0 U	< 2.0 UJ	NA
1,2-DIBROMOETHANE	NA	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
1,2-DICHLOROBENZENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	0.33 J	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
1,2-DICHLOROETHANE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
1,2-DICHLOROPROPANE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
1,3,5-TRICHLOROBENZENE	NA	NA	NA	NA	< 0.60 U	NA	NA	NA	NA	< 0.60 U	NA	NA	NA	NA	< 0.60 U	NA
1,3-DICHLOROBENZENE	NA	< 0.50 U	R	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
1,4-DICHLOROBENZENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
2-BUTANONE	NA	< 2.5 UJ	< 5.0 U	< 5.0 U	< 5.0 U	NA	< 2.5 UJ	< 5.0 U	< 5.0 U	< 5.0 U	NA	< 2.5 U	< 5.0 U	< 5.0 U	< 5.0 U	NA
2-CHLOROETHYL VINYL ETHER	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-HEXANONE	NA	< 2.5 U	< 0.60 U	< 0.60 U	< 1.0 U	NA	< 2.5 U	< 0.60 UJ	< 0.60 U	< 1.0 U	NA	< 2.5 U	< 0.60 UJ	< 0.60 U	< 1.0 U	NA
4-METHYL-2-PENTANONE	NA	< 2.5 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 2.5 U	< 0.60 UJ	< 0.60 U	< 0.60 U	NA	< 2.5 U	< 0.60 UJ	< 0.60 U	< 0.60 U	NA
ACETONE	NA	< 2.5 UJ	< 10 U	< 10 UJ	< 10 U	NA	< 2.5 UJ	< 10 U	< 10 UJ	< 10 U	NA	< 2.5 U	< 10 U	< 10 UJ	< 10 U	NA
BENZENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
BROMODICHLOROMETHANE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
BROMODICHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BROMOFORM	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
BROMOMETHANE	NA	< 1.0 U	< 4.0 U	< 4.0 U	< 1.0 UJ	NA	< 1.0 U	< 4.0 UJ	< 4.0 U	< 1.0 UJ	NA	< 1.0 U	< 4.0 UJ	< 4.0 U	< 1.0 UJ	NA
CARBON DISULFIDE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 UJ	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 UJ	< 0.60 U	< 0.60 U	NA
CARBON TETRACHLORIDE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U	NA
CHLOROBENZENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
CHLORODIBROMOMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHLOROETHANE	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NA
CHLOROFORM	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
CHLOROMETHANE	NA	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
CIS-1,2-DICHLOROETHENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	1.3 J	< 0.60 U	0.37 J	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
CIS-1,3-DICHLOROPROPENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
CYCLOHEXANE	NA	< 0.50 U	< 1.0 U	< 1.0 U	< 0.60 U	NA	< 0.50 U	< 1.0 U	< 1.0 UJ	< 0.60 U	NA	< 0.50 UJ	< 1.0 U	< 1.0 UJ	< 0.60 U	NA
DIBROMOCHLOROMETHANE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ	NA
DICHLORODIFLUOROMETHANE	NA	< 1.0 U	< 0.60 U	< 0.60 UJ	< 0.60 U	NA	< 1.0 U	< 0.60 U	< 0.60 UJ	< 0.60 U	NA	< 1.0 U	< 0.60 U	< 0.60 UJ	< 0.60 U	NA
ETHYLBENZENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
ISOPROPYLBENZENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
M- AND P-XYLENE	NA	< 1.0 U	< 1.2 U	< 1.2 U	< 1.2 U	NA	< 1.0 U	< 1.2 U	< 1.2 U	< 1.2 U	NA	< 1.0 U	< 1.2 U	< 1.2 U	< 1.2 U	NA
METHYL ACETATE	NA	< 0.75 UJ	< 1.0 U	< 1.0 U	< 1.0 U	NA	< 0.75 UJ	< 1.0 U	< 1.0 U	< 1.0 U	NA	< 0.75 U	< 1.0 U	< 1.0 U	< 1.0 U	NA
METHYL CYCLOHEXANE	NA	< 0.50 U	< 1.0 U	< 1.0 U	< 0.60 U	NA	< 0.50 U	< 1.0 U	< 1.0 UJ	< 0.60 U	NA	< 0.50 UJ	< 1.0 U	< 1.0 UJ	< 0.60 U	NA
METHYL TERT-BUTYL ETHER	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
METHYLENE CHLORIDE	NA	< 2.5 U	< 2.0 U	< 2.0 U	< 0.60 U	NA	< 2.5 U	< 0.60 U	< 2.0 U	< 0.60 U	NA	< 2.5 U	< 0.60 U	< 2.0 U	< 0.60 U	NA
NAPHTHALENE	NA	NA	< 0.60 U	< 0.60 UJ	< 0.60 U	NA	NA	< 0.60 U	< 0.60 UJ	< 0.60 U	NA	NA	< 0.60 U	< 0.60 UJ	< 0.60 U	NA
O-XYLENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
STYRENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA

Table C-1
Groundwater Analytical Results (2012 through 2017)
NWIRP Calverton, New York

Location	FTMW06S	FTMW07S					FTMW08I					FTMW08S				
Date	11/30/2017	9/26/2013	9/18/2014	9/23/2015	9/28/2016	11/30/2017	9/26/2013	9/18/2014	9/24/2015	9/29/2016	11/29/2017	9/26/2013	9/18/2014	9/24/2015	9/29/2016	11/29/2017
TETRACHLOROETHENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
TOLUENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
TRANA-1,2-DICHLOROETHENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
TRANA-1,3-DICHLOROPROPENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ	NA
TRICHLOROETHENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
TRICHLOROFLUOROMETHANE	NA	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 1.0 U	< 0.60 U	< 0.60 UJ	< 0.60 U	NA	< 1.0 U	< 0.60 U	< 0.60 UJ	< 0.60 U	NA
VINYL CHLORIDE	NA	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	NA
XYLENES, TOTAL	NA	< 1.5 U	< 1.8 U	< 1.8 U	< 1.8 U	NA	< 1.5 U	< 1.8 U	< 1.8 U	< 1.8 U	NA	< 1.5 U	< 1.8 U	< 1.8 U	< 1.8 U	NA
1,4-DIOXANE (8270 SIM)	0.05 U	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	0.05 UJ	NA	NA	NA	NA	0.05 U

(DUP) = Indicates a field duplicate sample.
All results are in micrograms per liter (µg/L)
Data Qualifiers:
< = Not detected; detection limit is shown.
U = Not detected above detection limits.
J = Estimated value.
R = Rejected value not reported.
NA = Not Analyzed

Table C-1
Groundwater Analytical Results (2012 through 2017)
NWIRP Calverton, New York

Location	FTMW08S (Dup)	FTMW09I						FTMW10I					FTPZ451S		FTPZ452S	
Date	11/29/2017	9/26/2013	7/17/2015	9/23/2015	9/29/2016	11/30/2017	11/30/2017	9/26/2013	7/17/2015	9/24/2015	9/29/2016	11/30/2017	9/23/2015	11/29/2017	9/25/2013	9/19/2014
VOLATILES (µg/Kg)																
1,1,1-TRICHLOROETHANE	NA	< 0.50 U	13	34	14	0.75 U	2.9 J	0.46 J	< 0.60 U	< 0.60 U	< 0.60 U	0.75 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
1,1,2,2-TETRACHLOROETHANE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	NA	< 0.50 U	2.4	6.9	4.3 J+	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 UJ	< 0.60 U	0.5 U	< 0.60 UJ	NA	< 0.50 U	< 0.60 U
1,1,2-TRICHLOROETHANE	NA	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
1,1-DICHLOROETHANE	NA	1.8 J	47	120	63	11.9	11.5	0.93 J	< 0.60 U	< 0.60 U	< 1.0 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
1,1-DICHLOROETHENE	NA	< 0.50 U	< 0.60 U	0.55 J	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
1,2,3-TRICHLOROBENZENE	NA	NA	NA	NA	< 0.60 U	0.5 U	0.5 U	NA	NA	NA	< 0.60 U	0.5 U	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	NA	< 0.50 U	< 0.60 U	< 0.60 UJ	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 UJ	< 0.60 U	0.5 U	< 0.60 UJ	NA	< 0.50 U	< 0.60 U
1,2-DIBROMO-3-CHLOROPROPANE	NA	< 0.75 U	< 1.0 UJ	< 1.0 U	< 2.0 UJ	2 U	2 U	< 0.75 U	< 1.0 UJ	< 1.0 U	< 2.0 UJ	2 U	< 1.0 U	NA	< 0.75 U	< 1.0 U
1,2-DIBROMOETHANE	NA	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
1,2-DICHLOROBENZENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
1,2-DICHLOROETHANE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.75 U	0.75 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.75 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
1,2-DICHLOROPROPANE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
1,3,5-TRICHLOROBENZENE	NA	NA	NA	NA	< 0.60 U	NA	NA	NA	NA	NA	< 0.60 U	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	R
1,4-DICHLOROBENZENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
2-BUTANONE	NA	< 2.5 UJ	< 5.0 U	< 5.0 U	< 5.0 U	2.5 U	2.5 U	< 2.5 U	< 5.0 U	< 5.0 U	< 5.0 U	2.5 U	< 5.0 U	NA	< 2.5 U	< 5.0 U
2-CHLOROETHYL VINYL ETHER	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-HEXANONE	NA	< 2.5 U	< 0.60 U	< 0.60 U	< 1.0 U	3.8 U	3.8 U	< 2.5 U	< 0.60 U	< 0.60 U	< 1.0 U	3.8 U	< 0.60 U	NA	< 2.5 U	< 0.60 U
4-METHYL-2-PENTANONE	NA	< 2.5 U	< 0.60 U	< 0.60 U	< 0.60 U	2.5 U	2.5 U	< 2.5 U	< 0.60 U	< 0.60 U	< 0.60 U	2.5 U	< 0.60 U	NA	< 2.5 U	< 0.60 U
ACETONE	NA	< 5.0 UJ	< 4.0 U	< 10 UJ	< 10 U	2.5 U	2.5 U	< 2.5 U	< 10 U	< 4.0 UJ	< 10 U	2.5 U	< 10 UJ	NA	< 2.5 U	< 10 U
BENZENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
BROMODICHLOROMETHANE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	< 0.60 U	NA	< 0.50 U	< 0.60 U
BROMODICHLOROMETHANE	NA	NA	NA	NA	NA	0.5 U	0.5 U	NA	NA	NA	NA	0.5 U	NA	NA	NA	NA
BROMOFORM	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
BROMOMETHANE	NA	< 1.0 U	< 4.0 U	< 4.0 U	< 1.0 UJ	0.5 U	0.5 U	< 1.0 U	< 4.0 U	< 4.0 U	< 1.0 UJ	0.5 U	< 4.0 U	NA	< 1.0 U	R
CARBON DISULFIDE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 UJ
CARBON TETRACHLORIDE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
CHLOROBENZENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
CHLORODIBROMOMETHANE	NA	NA	NA	NA	NA	0.5 U	0.5 U	NA	NA	NA	NA	0.5 U	NA	NA	NA	NA
CHLOROETHANE	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.5 U	0.5 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	0.5 U	< 1.0 U	NA	< 1.0 U	R
CHLOROFORM	NA	< 0.50 U	< 0.60 U	0.51 J	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
CHLOROMETHANE	NA	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 1.0 U	< 0.60 U
CIS-1,2-DICHLOROETHENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
CIS-1,3-DICHLOROPROPENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
CYCLOHEXANE	NA	< 0.50 U	< 1.0 U	< 1.0 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 1.0 U	< 1.0 UJ	< 0.60 U	0.5 U	< 1.0 UJ	NA	< 0.50 U	< 1.0 U
DIBROMOCHLOROMETHANE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ	NA	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ	NA	< 0.60 U	NA	< 0.50 U	< 0.60 U
DICHLORODIFLUOROMETHANE	NA	< 1.0 U	< 0.60 UJ	< 0.60 UJ	< 0.60 U	0.5 U	0.5 U	< 1.0 U	< 0.60 UJ	< 0.60 UJ	< 0.60 U	0.5 U	< 0.60 UJ	NA	< 1.0 U	< 0.60 U
ETHYLBENZENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
ISOPROPYLBENZENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
M- AND P-XYLENE	NA	< 1.0 U	< 1.2 U	< 1.2 U	< 1.2 U	1 U	1 U	< 1.0 U	< 1.2 U	< 1.2 U	< 1.2 U	1 U	< 1.2 U	NA	< 1.0 U	< 1.2 U
METHYL ACETATE	NA	< 0.75 UJ	< 1.0 U	< 1.0 U	< 1.0 U	2 U	2 U	< 0.75 U	< 1.0 U	< 1.0 U	< 1.0 U	2 U	< 1.0 U	NA	< 0.75 UJ	< 1.0 U
METHYL CYCLOHEXANE	NA	< 0.50 U	< 1.0 UJ	< 1.0 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 1.0 UJ	< 1.0 UJ	< 0.60 U	0.5 U	< 1.0 UJ	NA	< 0.50 U	< 1.0 U
METHYL TERT-BUTYL ETHER	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
METHYLENE CHLORIDE	NA	< 2.5 U	< 2.0 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 2.5 U	< 2.0 U	< 2.0 U	< 0.60 U	0.5 U	< 2.0 U	NA	< 2.5 U	< 2.0 U
NAPHTHALENE	NA	NA	< 0.60 UJ	< 0.60 UJ	< 0.60 U	0.5 U	0.5 U	NA	< 0.60 UJ	< 0.60 UJ	< 0.60 U	0.5 U	< 0.60 UJ	NA	NA	< 0.60 U
O-XYLENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
STYRENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U

Table C-1
Groundwater Analytical Results (2012 through 2017)
NWIRP Calverton, New York

Location	FTMW08S (Dup)	FTMW09I						FTMW10I					FTPZ451S		FTPZ452S	
Date	11/29/2017	9/26/2013	7/17/2015	9/23/2015	9/29/2016	11/30/2017	11/30/2017	9/26/2013	7/17/2015	9/24/2015	9/29/2016	11/30/2017	9/23/2015	11/29/2017	9/25/2013	9/19/2014
TETRACHLOROETHENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
TOLUENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
TRANA-1,2-DICHLOROETHENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
TRANA-1,3-DICHLOROPROPENE	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ	0.5 U	< 0.60 U	NA	< 0.50 U	< 0.60 U
TRICHLOROETHENE	NA	9.9 J	15	15	4.5	1.2 J	1 J	6.4 J	0.93 J	1.1	3.2	1.5 J	< 0.60 U	NA	< 0.50 U	R
TRICHLOROFLUOROMETHANE	NA	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 1.0 U	< 0.60 U	< 0.60 UJ	< 0.60 U	0.5 U	< 0.60 UJ	NA	< 1.0 U	< 0.60 U
VINYL CHLORIDE	NA	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	< 0.60 U	NA	< 1.0 U	< 0.60 U
XYLENES, TOTAL	NA	< 1.5 U	< 1.8 U	< 1.8 U	< 1.8 U	1.5 U	1.5 U	< 1.5 U	< 1.8 U	< 1.8 U	< 1.8 U	1.5 U	< 1.8 U	NA	< 1.5 U	< 1.8 U
1,4-DIOXANE (8270 SIM)	0.05 U	NA	NA	< 2.3 U	NA	0.12 J+	0.11 J+	NA	NA	< 2.4 U		0.05 U	NA	0.05 U	NA	NA

(DUP) = Indicates a field duplicate sample.
All results are in micrograms per liter (µg/L)
Data Qualifiers:
< = Not detected; detection limit is shown.
U = Not detected above detection limits.
J = Estimated value.
R = Rejected value not reported.
NA = Not Analyzed

Table C-1
Groundwater Analytical Results (2012 through 2017)
NWIRP Calverton, New York

Location	FTPZ452S				FTPZ453S		FTPZ454S		FTPZ454S			FTPZ455I		FTPZ455S		
			(Dup)													
Date	9/23/2015	9/28/2016	9/28/2016	11/29/2017	2/21/2012	12/2/2017	9/25/2013	9/18/2014	9/22/2015	9/28/2016	12/2/2017	12/2/2017	12/2/2017	9/16/2014	9/17/2015	12/2/2017
VOLATILES (µg/Kg)																
1,1,1-TRICHLOROETHANE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
1,1,2,2-TETRACHLOROETHANE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	< 0.60 UJ	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
1,1,2-TRICHLOROETHANE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
1,1-DICHLOROETHANE	< 0.60 U	< 1.0 U	< 1.0 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 1.0 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
1,1-DICHLOROETHENE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
1,2,3-TRICHLOROBENZENE	NA	< 0.60 U	< 0.60 UJ	NA	0.5 U	NA	NA	NA	NA	< 0.60 U	NA	0.5 U	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	< 0.60 UJ	< 0.60 U	< 0.60 UJ	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 UJ	< 0.60 U	NA
1,2-DIBROMO-3-CHLOROPROPANE	< 1.0 U	< 2.0 UJ	< 2.0 UJ	NA	0.5 U	NA	< 0.75 U	< 1.0 U	< 1.0 U	< 2.0 UJ	NA	0.5 U	NA	< 1.0 U	< 1.0 U	NA
1,2-DIBROMOETHANE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
1,2-DICHLOROBENZENE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
1,2-DICHLOROETHANE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
1,2-DICHLOROPROPANE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
1,3,5-TRICHLOROBENZENE	NA	< 0.60 U	< 0.60 UJ	NA	NA	NA	NA	NA	NA	< 0.60 U	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	R	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
1,4-DICHLOROBENZENE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
2-BUTANONE	< 5.0 U	< 5.0 U	< 5.0 U	NA	2.5 U	NA	< 2.5 U	< 5.0 U	< 5.0 U	< 5.0 U	NA	2.5 U	NA	< 5.0 U	< 5.0 U	NA
2-CHLOROETHYL VINYL ETHER	NA	NA	NA	NA	2.5 UR	NA	NA	NA	NA	NA	NA	2.5 U	NA	NA	NA	NA
2-HEXANONE	< 0.60 U	< 1.0 U	< 1.0 U	NA	2.5 U	NA	< 2.5 U	< 0.60 U	< 0.60 U	< 1.0 U	NA	2.5 U	NA	< 0.60 UJ	< 0.60 U	NA
4-METHYL-2-PENTANONE	< 0.60 U	< 0.60 U	< 0.60 U	NA	2.5 U	NA	< 2.5 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	2.5 U	NA	< 0.60 UJ	< 0.60 U	NA
ACETONE	< 10 UJ	< 10 U	< 10 U	NA	2.5 U	NA	< 5.0 U	< 4.0 U	< 10 U	< 10 U	NA	2.5 U	NA	< 10 U	< 4.0 U	NA
BENZENE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
BROMODICHLOROMETHANE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
BROMODICHLOROMETHANE	NA	NA	NA	NA	0.5 U	NA	NA	NA	NA	NA	NA	0.5 U	NA	NA	NA	NA
BROMOFORM	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
BROMOMETHANE	< 4.0 U	< 1.0 UJ	< 1.0 U	NA	0.5 U	NA	< 1.0 U	< 4.0 U	< 4.0 UJ	< 1.0 UJ	NA	0.5 U	NA	< 4.0 UJ	< 4.0 U	NA
CARBON DISULFIDE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 1.0 U	< 0.60 U	NA	0.5 U	NA	< 0.60 UJ	< 0.60 U	NA
CARBON TETRACHLORIDE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
CHLOROBENZENE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
CHLORODIBROMOMETHANE	NA	NA	NA	NA	0.5 U	NA	NA	NA	NA	NA	NA	0.5 U	NA	NA	NA	NA
CHLOROETHANE	< 1.0 U	< 1.0 U	< 1.0 U	NA	0.5 U	NA	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NA	0.5 U	NA	< 1.0 U	< 1.0 U	NA
CHLOROFORM	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.83 J	NA	0.39 J	0.84 J	NA
CHLOROMETHANE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 1.0 U	< 0.60 U	< 1.0 UJ	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
CIS-1,2-DICHLOROETHENE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
CIS-1,3-DICHLOROPROPENE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
CYCLOHEXANE	< 1.0 UJ	< 0.60 U	< 0.60 UJ	NA	0.5 U	NA	< 0.50 UJ	< 1.0 U	< 1.0 U	< 0.60 U	NA	0.5 U	NA	< 1.0 U	< 1.0 UJ	NA
DIBROMOCHLOROMETHANE	< 0.60 U	< 0.60 UJ	< 0.60 UJ	NA	NA NA	NA NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ	NA	NA	NA	< 0.60 U	< 0.60 U	NA
DICHLORODIFLUOROMETHANE	< 0.60 UJ	< 0.60 U	< 0.60 UJ	NA	0.5 U	NA	< 1.0 U	< 0.60 U	< 0.60 UJ	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 UJ	NA
ETHYLBENZENE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
ISOPROPYLBENZENE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
M- AND P-XYLENE	< 1.2 U	< 1.2 U	< 1.2 U	NA	1 U	NA	< 1.0 U	< 1.2 U	< 1.2 U	< 1.2 U	NA	1 U	NA	< 1.2 U	< 1.2 U	NA
METHYL ACETATE	< 1.0 U	< 1.0 U	< 1.0 U	NA	0.5 U	NA	< 0.75 U	< 1.0 U	< 1.0 U	< 1.0 U	NA	0.5 U	NA	< 1.0 U	< 1.0 U	NA
METHYL CYCLOHEXANE	< 1.0 UJ	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 UJ	< 1.0 U	< 1.0 U	< 0.60 U	NA	0.5 U	NA	< 1.0 U	< 1.0 U	NA
METHYL TERT-BUTYL ETHER	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
METHYLENE CHLORIDE	< 2.0 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 2.5 U	< 2.0 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 2.0 U	NA
NAPHTHALENE	< 0.60 UJ	< 0.60 U	< 0.60 U	NA	NA	NA	NA	< 0.60 U	< 0.60 UJ	< 0.60 U	NA	NA	NA	< 0.60 U	< 0.60 U	NA
O-XYLENE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
STYRENE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA

Table C-1
Groundwater Analytical Results (2012 through 2017)
NWIRP Calverton, New York

Location	FTPZ452S				FTPZ453S		FTPZ454S		FTPZ454S			FTPZ455I		FTPZ455S		
			(Dup)													
Date	9/23/2015	9/28/2016	9/28/2016	11/29/2017	2/21/2012	12/2/2017	9/25/2013	9/18/2014	9/22/2015	9/28/2016	12/2/2017	12/2/2017	12/2/2017	9/16/2014	9/17/2015	12/2/2017
TETRACHLOROETHENE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
TOLUENE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
TRANA-1,2-DICHLOROETHENE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
TRANA-1,3-DICHLOROPROPENE	< 0.60 U	< 0.60 UJ	< 0.60 UJ	NA	0.5 U	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
TRICHLOROETHENE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	1.6 J	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
TRICHLOROFLUOROMETHANE	< 0.60 UJ	< 0.60 U	< 0.60 UJ	NA	0.5 U	NA	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
VINYL CHLORIDE	< 0.60 U	< 0.60 U	< 0.60 U	NA	0.5 U	NA	< 1.0 U	< 0.60 U	< 0.60 UJ	< 0.60 U	NA	0.5 U	NA	< 0.60 U	< 0.60 U	NA
XYLENES, TOTAL	< 1.8 U	< 1.8 U	< 1.8 U	NA	NA	NA	< 1.5 U	< 1.8 U	< 1.8 U	< 1.8 U	NA	NA	NA	< 1.8 U	< 1.8 U	NA
1,4-DIOXANE (8270 SIM)	NA	NA	NA	0.05 U	NA	0.05 U	NA	NA	NA	NA	0.05 U	NA	0.05 U	NA	NA	0.05 U

(DUP) = Indicates a field duplicate sample.
All results are in micrograms per liter (µg/L)
Data Qualifiers:
< = Not detected; detection limit is shown.
U = Not detected above detection limits.
J = Estimated value.
R = Rejected value not reported.
NA = Not Analyzed

Table C-1
Groundwater Analytical Results (2012 through 2017)
NWIRP Calverton, New York

Location	FTPZ456I			FTPZ456S			FTPZ456S		FTPZ457S		FTPZ458I					
		(Dup)									Duplicate					
Date	9/26/2016	9/26/2016	12/4/2017	9/19/2013	9/16/2014	9/17/2015	9/26/2016	12/4/2017	2/21/2012	12/4/2017	2/22/2012	6/12/2012	6/12/2012	9/19/2013	9/16/2014	9/17/2015
VOLATILES (µg/Kg)																
1,1,1-TRICHLOROETHANE	R	R	0.75 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.75 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
1,1,2,2-TETRACHLOROETHANE	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
1,1,2-TRICHLOROETHANE	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
1,1-DICHLOROETHANE	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.8 J	0.86 J	0.8 J	0.81 J	0.70 J	0.62 J
1,1-DICHLOROETHENE	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.77 J	0.5 U	0.64 J	0.88 J	1.0	0.92 J
1,2,3-TRICHLOROBENZENE	R	R	0.5 U	NA	NA	NA	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	NA	NA	NA
1,2,4-TRICHLOROBENZENE	R	R	0.5 U	< 0.50 U	< 0.60 UJ	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 UJ	< 0.60 U
1,2-DIBROMO-3-CHLOROPROPANE	R	R	2 U	< 0.75 U	< 1.0 U	< 1.0 U	R	2 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.75 U	< 1.0 U	< 1.0 U
1,2-DIBROMOETHANE	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
1,2-DICHLOROBENZENE	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
1,2-DICHLOROETHANE	R	R	0.75 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.75 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
1,2-DICHLOROPROPANE	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
1,3,5-TRICHLOROBENZENE	R	R	NA	NA	NA	NA	R	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
1,4-DICHLOROBENZENE	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
2-BUTANONE	R	R	2.5 U	< 2.5 U	< 5.0 U	< 5.0 U	R	2.5 U	2.5 U	NA	2.5 U	2.5 U	2.5 U	< 2.5 U	< 5.0 U	< 5.0 U
2-CHLOROETHYL VINYL ETHER	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U	NA	NA	NA
2-HEXANONE	R	R	3.8 U	< 2.5 U	< 0.60 UJ	< 0.60 U	R	3.8 U	2.5 U	NA	2.5 U	2.5 U	2.5 U	< 2.5 U	< 0.60 UJ	< 0.60 U
4-METHYL-2-PENTANONE	R	R	2.5 U	< 2.5 U	< 0.60 UJ	< 0.60 U	R	2.5 U	2.5 U	NA	2.5 U	2.5 U	2.5 U	< 2.5 U	< 0.60 UJ	< 0.60 U
ACETONE	< 10 UJ	< 10 UJ	2.5 U	< 2.5 U	< 10 U	2.1 J	< 10 UJ	2.5 U	2.5 U	NA	2.5 U	2.5 U	2.5 U	< 2.5 U	< 10 U	< 4.0 U
BENZENE	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
BROMODICHLOROMETHANE	R	R	NA	< 0.50 U	< 0.60 U	< 0.60 U	R	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
BROMODICHLOROMETHANE	NA	NA	0.5 U	NA	NA	NA	NA	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	NA	NA	NA
BROMOFORM	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
BROMOMETHANE	R	R	0.5 U	< 1.0 U	< 4.0 UJ	< 4.0 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 1.0 U	< 4.0 UJ	< 4.0 U
CARBON DISULFIDE	R	R	0.5 U	< 0.50 U	< 0.60 UJ	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 UJ	0.5 UJ	< 0.50 U	< 0.60 UJ	< 0.60 U
CARBON TETRACHLORIDE	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
CHLOROBENZENE	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
CHLORODIBROMOMETHANE	NA	NA	0.5 U	NA	NA	NA	NA	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	NA	NA	NA
CHLOROETHANE	R	R	0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 1.0 U	< 1.0 U	< 1.0 U
CHLOROFORM	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
CHLOROMETHANE	R	R	0.5 U	< 1.0 U	0.35 J	< 0.60 U	R	0.5 U	0.56 J	NA	0.5 U	0.5 U	0.5 U	< 1.0 U	< 0.60 U	< 0.60 U
CIS-1,2-DICHLOROETHENE	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	4.1	3.8	4.2	1.9	1.0	1.0
CIS-1,3-DICHLOROPROPENE	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
CYCLOHEXANE	R	R	0.5 U	< 0.50 U	< 1.0 U	< 1.0 UJ	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 1.0 U	< 1.0 UJ
DIBROMOCHLOROMETHANE	R	R	NA	< 0.50 U	< 0.60 U	< 0.60 U	R	NA	NA	NA	NA	NA	NA	< 0.50 U	< 0.60 U	< 0.60 U
DICHLORODIFLUOROMETHANE	R	R	0.5 U	< 1.0 U	< 0.60 U	< 0.60 UJ	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 1.0 U	< 0.60 U	< 0.60 UJ
ETHYLBENZENE	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
ISOPROPYLBENZENE	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
M- AND P-XYLENE	R	R	1 U	< 1.0 U	< 1.2 U	< 1.2 U	R	1 U	1 U	NA	1 U	1 U	1 U	< 1.0 U	< 1.2 U	< 1.2 U
METHYL ACETATE	R	R	2 U	< 0.75 U	< 1.0 U	< 1.0 U	R	2 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.75 U	< 1.0 U	< 1.0 U
METHYL CYCLOHEXANE	R	R	0.5 U	< 0.50 U	< 1.0 U	< 1.0 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 1.0 U	< 1.0 U
METHYL TERT-BUTYL ETHER	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
METHYLENE CHLORIDE	R	< 5.0 UJ	0.5 U	< 2.5 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 2.5 U	< 0.60 U	< 2.0 U
NAPHTHALENE	R	R	0.5 U	NA	< 0.60 U	< 0.60 U	R	0.5 U	NA	NA	NA	NA	NA	NA	< 0.60 U	< 0.60 U
O-XYLENE	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
STYRENE	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U

Table C-1
Groundwater Analytical Results (2012 through 2017)
NWIRP Calverton, New York

Location	FTPZ456I			FTPZ456S			FTPZ456S		FTPZ457S		FTPZ458I					
		(Dup)										Duplicate				
Date	9/26/2016	9/26/2016	12/4/2017	9/19/2013	9/16/2014	9/17/2015	9/26/2016	12/4/2017	2/21/2012	12/4/2017	2/22/2012	6/12/2012	6/12/2012	9/19/2013	9/16/2014	9/17/2015
TETRACHLOROETHENE	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.89 J	0.5 U	0.8 J	< 0.50 U	0.40 J	0.54 J
TOLUENE	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
TRANA-1,2-DICHLOROETHENE	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
TRANA-1,3-DICHLOROPROPENE	R	R	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U
TRICHLOROETHENE	R	R	0.5 J	< 0.50 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	24	23	25	13	11	14
TRICHLOROFLUOROMETHANE	R	R	0.5 U	< 1.0 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 1.0 U	< 0.60 U	< 0.60 U
VINYL CHLORIDE	R	R	0.5 U	< 1.0 U	< 0.60 U	< 0.60 U	R	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	< 1.0 U	< 0.60 U	< 0.60 U
XYLENES, TOTAL	R	R	1.5 U	< 1.5 U	< 1.8 U	< 1.8 U	R	1.5 U	NA	NA	NA	NA	NA	< 1.5 U	< 1.8 U	< 1.8 U
1,4-DIOXANE (8270 SIM)	NA	NA	0.28 J	NA	NA	NA	NA	0.05 U	NA	0.05 U	NA	NA	NA	NA	NA	NA

(DUP) = Indicates a field duplicate sample.
All results are in micrograms per liter (µg/L)
Data Qualifiers:
< = Not detected; detection limit is shown.
U = Not detected above detection limits.
J = Estimated value.
R = Rejected value not reported.
NA = Not Analyzed

Table C-1
Groundwater Analytical Results (2012 through 2017)
NWIRP Calverton, New York

Location	FTPZ458I		FTPZ458S		FTPZ459I			FTPZ459S			FTPZ460I				
						(Dup)									(Dup)
Date	9/27/2016	12/14/2017	2/22/2012	12/14/2017	2/22/2012	2/22/2012	12/14/2017	2/22/2012	12/14/2017	2/23/2017	6/12/2012	9/25/2013	9/17/2014	9/16/2015	9/16/2015
VOLATILES (µg/Kg)															
1,1,1-TRICHLOROETHANE	< 0.60 U	0.75 U	0.5 U	0.75 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
1,1,2,2-TETRACHLOROETHANE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.50 UJ	< 0.60 UJ	< 0.60 U	< 0.60 UJ
1,1,2-TRICHLOROETHANE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
1,1-DICHLOROETHANE	< 1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	14	21	43 J	42	32	32
1,1-DICHLOROETHENE	0.98 J	0.5 U	0.5 U	0.5 U	0.67 J	0.61 J	NA	0.5 U	NA	21	35	80 J	130	93	91
1,2,3-TRICHLOROBENZENE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
1,2-DIBROMO-3-CHLOROPROPANE	< 2.0 U	2 U	0.5 U	2 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.75 UJ	< 1.0 U	< 1.0 U	< 1.0 U
1,2-DIBROMOETHANE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
1,2-DICHLOROBENZENE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
1,2-DICHLOROETHANE	< 0.60 U	0.75 U	0.5 U	0.75 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.50 UJ	0.67 J	0.57 J	0.53 J
1,2-DICHLOROPROPANE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
1,3,5-TRICHLOROBENZENE	< 0.60 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
1,4-DICHLOROBENZENE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
2-BUTANONE	< 5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	< 2.5 UJ	< 5.0 U	< 5.0 U	< 5.0 U
2-CHLOROETHYL VINYL ETHER	NA	NA	2.5 U	NA	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 UR	NA	NA	NA	NA
2-HEXANONE	< 1.0 U	3.8 U	2.5 U	3.8 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	< 2.5 UJ	< 0.60 U	< 0.60 U	< 0.60 U
4-METHYL-2-PENTANONE	< 0.60 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	< 2.5 UJ	< 0.60 U	< 0.60 U	< 0.60 U
ACETONE	< 10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	< 5.6 UJ	< 10 U	< 4.0 U	< 4.0 U
BENZENE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
BROMODICHLOROMETHANE	< 0.60 U	NA	0.5 U	NA	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
BROMODICHLOROMETHANE	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	NA	NA	NA	NA
BROMOFORM	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 UJ	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
BROMOMETHANE	< 1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 1.0 UJ	R	< 4.0 UJ	< 4.0 U
CARBON DISULFIDE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 UJ	< 0.50 UJ	< 0.60 UJ	< 0.60 U	< 0.60 U
CARBON TETRACHLORIDE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
CHLOROBENZENE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
CHLORODIBROMOMETHANE	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	NA	NA	NA	NA
CHLOROETHANE	< 1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
CHLOROFORM	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 J	NA	0.5 U	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
CHLOROMETHANE	0.46 J+	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 1.0 UJ	< 0.60 U	< 0.60 U	< 0.60 U
CIS-1,2-DICHLOROETHENE	0.94 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	7.8	9.9	7.2 J	4.8	3.9	3.9
CIS-1,3-DICHLOROPROPENE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 UJ	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
CYCLOHEXANE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.53 J	NA	0.5 U	0.5 U	< 0.50 UJ	< 1.0 U	< 1.0 UJ	< 1.0 UJ
DIBROMOCHLOROMETHANE	< 0.60 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA NA	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
DICHLORODIFLUOROMETHANE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 1.0 UJ	< 0.60 UJ	< 0.60 UJ	< 0.60 UJ
ETHYLBENZENE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
ISOPROPYLBENZENE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
M- AND P-XYLENE	< 1.2 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	1 U	1 U	< 1.0 UJ	< 1.2 U	< 1.2 U	< 1.2 U
METHYL ACETATE	< 1.0 U	2 U	0.5 U	2 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.75 UJ	< 1.0 U	< 1.0 U	< 1.0 U
METHYL CYCLOHEXANE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.68 J	NA	0.5 U	0.5 U	< 0.50 UJ	< 1.0 U	< 1.0 U	< 1.0 U
METHYL TERT-BUTYL ETHER	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
METHYLENE CHLORIDE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 2.5 UJ	< 0.60 U	< 2.0 U	< 0.60 U
NAPHTHALENE	< 0.60 U	0.5 U	NA	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U
O-XYLENE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
STYRENE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U

Table C-1
Groundwater Analytical Results (2012 through 2017)
NWIRP Calverton, New York

Location	FTPZ458I		FTPZ458S		FTPZ459I			FTPZ459S			FTPZ460I				
						(Dup)									(Dup)
Date	9/27/2016	12/14/2017	2/22/2012	12/14/2017	2/22/2012	2/22/2012	12/14/2017	2/22/2012	12/14/2017	2/23/2017	6/12/2012	9/25/2013	9/17/2014	9/16/2015	9/16/2015
TETRACHLOROETHENE	0.58 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	7.7	7.7	6.9 J	6.6	5.6	5.1
TOLUENE	< 0.60 U	0.5 U	0.65 J	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
TRANA-1,2-DICHLOROETHENE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
TRANA-1,3-DICHLOROPROPENE	< 0.60 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U
TRICHLOROETHENE	15	4.1 J	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	440	600	370 J	260 J	190	160
TRICHLOROFLUOROMETHANE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	< 1.0 UJ	< 0.60 U	< 0.60 UJ	< 0.60 U
VINYL CHLORIDE	< 0.60 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.43 J	0.5 U	0.72 J	< 0.60 U	0.53 J	0.78 J
XYLENES, TOTAL	< 1.8 U	1.5 U	NA	1.5 U	NA	NA	NA	NA	NA	NA	NA	< 1.5 UJ	< 1.8 U	< 1.8 U	< 1.8 U
1,4-DIOXANE (8270 SIM)	NA	0.46 J+	NA	0.05 U	NA	NA	0.05 U	NA	0.06 U	NA	NA	NA	NA	NA	NA

(DUP) = Indicates a field duplicate sample.
All results are in micrograms per liter (µg/L)
Data Qualifiers:
< = Not detected; detection limit is shown.
U = Not detected above detection limits.
J = Estimated value.
R = Rejected value not reported.
NA = Not Analyzed

Table C-1
Groundwater Analytical Results (2012 through 2017)
NWIRP Calverton, New York

Location	FTPZ460I		FTPZ461I									FTPZ462S				
											Duplicate			(DUP)		(Dup)
Date	9/28/2016	12/4/2017	2/23/2012	6/12/2012	9/25/2013	9/17/2014	9/16/2015	9/28/2016	9/28/2016	12/4/2017	12/4/2017	2/23/2012	9/19/2013	9/19/2013	9/16/2014	9/16/2014
VOLATILES (µg/Kg)																
1,1,1-TRICHLOROETHANE	< 0.60 U	0.75 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.75 U	0.75 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
1,1,2,2-TETRACHLOROETHANE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 UJ	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
1,1,2-TRICHLOROETHANE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
1,1-DICHLOROETHANE	27	23.2	3.9	4.7	4.8 J	2.7	2.0	1.4 J	1.3 J	0.96 J	0.93 J	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
1,1-DICHLOROETHENE	75	60.4	2.8	2.3	3.0 J	2.4	1.4	1.0	0.94 J	0.82 J	0.82 J	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
1,2,3-TRICHLOROBENZENE	< 0.60 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 UJ	< 0.60 UJ
1,2-DIBROMO-3-CHLOROPROPANE	< 2.0 UJ	2 U	0.5 U	0.5 U	< 0.75 U	< 1.0 U	< 1.0 U	< 2.0 UJ	< 2.0 UJ	2 U	2 U	0.5 U	< 0.75 U	< 0.75 U	< 1.0 U	< 1.0 U
1,2-DIBROMOETHANE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
1,2-DICHLOROBENZENE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
1,2-DICHLOROETHANE	0.48 J	0.75 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.75 U	0.75 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
1,2-DICHLOROPROPANE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
1,3,5-TRICHLOROBENZENE	< 0.60 U	NA	NA	NA	NA	NA	NA	< 0.60 U	< 0.60 U	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
1,4-DICHLOROBENZENE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
2-BUTANONE	< 5.0 U	2.5 U	2.5 U	2.5 U	< 2.5 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.5 U	2.5 U	2.5 U	< 2.5 U	< 2.5 U	< 5.0 U	< 5.0 U
2-CHLOROETHYL VINYL ETHER	NA	NA	2.5 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	NA	NA	NA
2-HEXANONE	< 1.0 U	3.8 U	2.5 U	2.5 U	< 2.5 U	< 0.60 U	< 0.60 U	< 1.0 U	< 1.0 U	3.8 U	3.8 U	2.5 U	< 2.5 U	< 2.5 U	< 0.60 UJ	< 0.60 UJ
4-METHYL-2-PENTANONE	< 0.60 U	2.5 U	2.5 U	2.5 U	< 2.5 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	2.5 U	2.5 U	2.5 U	< 2.5 U	< 2.5 U	< 0.60 UJ	< 0.60 UJ
ACETONE	< 10 U	2.5 U	2.5 U	4.2 J	< 5.0 U	< 10 U	1.4 J	< 10 U	< 10 U	2.5 U	2.5 U	2.5 U	< 2.5 U	< 2.5 U	< 10 U	< 10 U
BENZENE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
BROMODICHLOROMETHANE	< 0.60 U	NA	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	NA	NA	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
BROMODICHLOROMETHANE	NA	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA
BROMOFORM	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
BROMOMETHANE	< 1.0 UJ	0.5 U	0.5 U	0.5 U	< 1.0 U	R	< 4.0 UJ	< 1.0 UJ	< 1.0 UJ	0.5 U	0.5 U	0.5 U	< 1.0 U	< 1.0 U	< 4.0 UJ	< 4.0 UJ
CARBON DISULFIDE	< 0.60 U	0.5 U	0.5 U	0.5 UJ	< 0.50 U	< 0.60 UJ	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 UJ	< 0.60 UJ
CARBON TETRACHLORIDE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 UJ	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
CHLOROBENZENE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
CHLORODIBROMOMETHANE	NA	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA
CHLOROETHANE	< 1.0 U	0.5 U	0.5 U	0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.5 U	0.5 U	0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
CHLOROFORM	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	1.3	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
CHLOROMETHANE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.61 J	< 1.0 U	< 1.0 U	< 0.60 U	0.53 J
CIS-1,2-DICHLOROETHENE	3.2	3.2 J	4.2	5	4.4 J	3.4	8.4	3.4	3.4	1.6 J	1.6 J	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
CIS-1,3-DICHLOROPROPENE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
CYCLOHEXANE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 UJ	< 1.0 U	< 1.0 UJ	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
DIBROMOCHLOROMETHANE	< 0.60 UJ	NA	NA	NA	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ	< 0.60 UJ	NA	NA	NA	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
DICHLORODIFLUOROMETHANE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 1.0 U	< 0.60 UJ	< 0.60 UJ	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 1.0 U	< 1.0 U	< 0.60 U	< 0.60 U
ETHYLBENZENE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
ISOPROPYLBENZENE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
M- AND P-XYLENE	< 1.2 U	1 U	1 U	1 U	< 1.0 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	1 U	1 U	1 U	< 1.0 U	< 1.0 U	< 1.2 U	< 1.2 U
METHYL ACETATE	< 1.0 U	2 U	0.5 U	0.5 U	< 0.75 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	2 U	2 U	0.5 U	< 0.75 U	< 0.75 U	< 1.0 U	< 1.0 U
METHYL CYCLOHEXANE	1.0	0.5 U	0.5 U	0.5 U	< 0.50 UJ	< 1.0 U	< 1.0 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 1.0 U	< 1.0 U
METHYL TERT-BUTYL ETHER	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
METHYLENE CHLORIDE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 2.5 U	< 0.60 U	< 2.0 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 2.5 U	< 2.5 U	< 0.60 U	< 0.60 U
NAPHTHALENE	< 0.60 U	0.5 U	NA	NA	NA	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	NA	NA	NA	< 0.60 U	< 0.60 U
O-XYLENE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
STYRENE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U

Table C-1
Groundwater Analytical Results (2012 through 2017)
NWIRP Calverton, New York

Location	FTPZ460I		FTPZ461I									FTPZ462S				
											Duplicate			(DUP)		(Dup)
Date	9/28/2016	12/4/2017	2/23/2012	6/12/2012	9/25/2013	9/17/2014	9/16/2015	9/28/2016	9/28/2016	12/4/2017	12/4/2017	2/23/2012	9/19/2013	9/19/2013	9/16/2014	9/16/2014
TETRACHLOROETHENE	4.2	2.9 J	0.88 J	1	1.2 J	1.4	1.4	0.77 J	0.76 J	0.48 J	0.47 J	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
TOLUENE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
TRANA-1,2-DICHLOROETHENE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
TRANA-1,3-DICHLOROPROPENE	< 0.60 UJ	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.60 U	< 0.60 U	< 0.60 UJ	< 0.60 UJ	0.5 U	0.5 U	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
TRICHLOROETHENE	150	100	69	74	92 J	86	64	32	33	20.5	20.6	0.5 U	< 0.50 U	< 0.50 U	< 0.60 U	< 0.60 U
TRICHLOROFLUOROMETHANE	< 0.60 U	0.5 U	0.5 U	0.5 U	< 1.0 U	< 0.60 U	< 0.60 UJ	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 1.0 U	< 1.0 U	< 0.60 U	< 0.60 U
VINYL CHLORIDE	0.66 J	0.5 U	0.5 U	0.5 U	< 1.0 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	0.5 U	0.5 U	0.5 U	< 1.0 U	< 1.0 U	< 0.60 U	< 0.60 U
XYLENES, TOTAL	< 1.8 U	1.5 U	NA	NA	< 1.5 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	1.5 U	1.5 U	NA	< 1.5 U	< 1.5 U	< 1.8 U	< 1.8 U
1,4-DIOXANE (8270 SIM)	NA	3.2 J+	NA	NA	NA	NA	NA	NA	NA	1 J+	1 J+	NA	NA	NA	NA	NA

(DUP) = Indicates a field duplicate sample.
All results are in micrograms per liter (µg/L)
Data Qualifiers:
< = Not detected; detection limit is shown.
U = Not detected above detection limits.
J = Estimated value.
R = Rejected value not reported.
NA = Not Analyzed

Table C-1
Groundwater Analytical Results (2012 through 2017)
NWIRP Calverton, New York

Location	FTPZ462S	
Date	9/17/2015	12/2/2017
VOLATILES (µg/Kg)		
1,1,1-TRICHLOROETHANE	< 0.60 U	NA
1,1,2,2-TETRACHLOROETHANE	< 0.60 U	NA
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	< 0.60 U	NA
1,1,2-TRICHLOROETHANE	< 0.60 U	NA
1,1-DICHLOROETHANE	< 0.60 U	NA
1,1-DICHLOROETHENE	< 0.60 U	NA
1,2,3-TRICHLOROBENZENE	NA	NA
1,2,4-TRICHLOROBENZENE	< 0.60 U	NA
1,2-DIBROMO-3-CHLOROPROPANE	< 1.0 U	NA
1,2-DIBROMOETHANE	< 0.60 U	NA
1,2-DICHLOROBENZENE	< 0.60 U	NA
1,2-DICHLOROETHANE	< 0.60 U	NA
1,2-DICHLOROPROPANE	< 0.60 U	NA
1,3,5-TRICHLOROBENZENE	NA	NA
1,3-DICHLOROBENZENE	< 0.60 U	NA
1,4-DICHLOROBENZENE	< 0.60 U	NA
2-BUTANONE	< 5.0 U	NA
2-CHLOROETHYL VINYL ETHER	NA	NA
2-HEXANONE	< 0.60 U	NA
4-METHYL-2-PENTANONE	< 0.60 U	NA
ACETONE	1.9 J	NA
BENZENE	< 0.60 U	NA
BROMODICHLOROMETHANE	< 0.60 U	NA
BROMODICHLOROMETHANE	NA	NA
BROMOFORM	< 0.60 U	NA
BROMOMETHANE	< 4.0 U	NA
CARBON DISULFIDE	< 0.60 U	NA
CARBON TETRACHLORIDE	< 0.60 U	NA
CHLOROBENZENE	< 0.60 U	NA
CHLORODIBROMOMETHANE	NA	NA
CHLOROETHANE	< 1.0 U	NA
CHLOROFORM	< 0.60 U	NA
CHLOROMETHANE	< 0.60 U	NA
CIS-1,2-DICHLOROETHENE	< 0.60 U	NA
CIS-1,3-DICHLOROPROPENE	< 0.60 U	NA
CYCLOHEXANE	< 1.0 UJ	NA
DIBROMOCHLOROMETHANE	< 0.60 U	NA
DICHLORODIFLUOROMETHANE	< 0.60 UJ	NA
ETHYLBENZENE	< 0.60 U	NA
ISOPROPYLBENZENE	< 0.60 U	NA
M- AND P-XYLENE	< 1.2 U	NA
METHYL ACETATE	< 1.0 U	NA
METHYL CYCLOHEXANE	< 1.0 U	NA
METHYL TERT-BUTYL ETHER	< 0.60 U	NA
METHYLENE CHLORIDE	< 0.60 U	NA
NAPHTHALENE	< 0.60 U	NA
O-XYLENE	< 0.60 U	NA
STYRENE	< 0.60 U	NA

Table C-1
Groundwater Analytical Results (2012 through 2017)
NWIRP Calverton, New York

Location	FTPZ462S	
Date	9/17/2015	12/2/2017
TETRACHLOROETHENE	< 0.60 U	NA
TOLUENE	< 0.60 U	NA
TRANA-1,2-DICHLOROETHENE	< 0.60 U	NA
TRANA-1,3-DICHLOROPROPENE	< 0.60 U	NA
TRICHLOROETHENE	< 0.60 U	NA
TRICHLOROFLUOROMETHANE	< 0.60 U	NA
VINYL CHLORIDE	< 0.60 U	NA
XYLENES, TOTAL	< 1.8 U	NA
1,4-DIOXANE (8270 SIM)	NA	0.05 U

(DUP) = Indicates a field duplicate sample.
All results are in micrograms per liter (µg/L)
Data Qualifiers:
< = Not detected; detection limit is shown.
U = Not detected above detection limits.
J = Estimated value.
R = Rejected value not reported.
NA = Not Analyzed