D:\HPCHEM\1\DATA\A091817.SEC\A0918033.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/18/17
Data File Name	A0918033.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	557715	584740	-5
c - 10	1.63	565511	584740	-3
c - 12	2.35	582479	584740	0
c - 14	3.01	593059	584740	1
c - 16	3.61	604433	584740	3
c - 18	4.23	595278	584740	2
o-Terphenyl	4.51	665550	584740	
c - 20	4.83	600772	584740	3
c - 22	5.33	607979	584740	4
c - 24	5.77	565808	584740	-3
c - 26	6.16	594595	584740	2
c - 28	6.52	587656	584740	0
c - 30	6.85	584471	584740	0
c - 32	7.16	572079	584740	-2
c - 34	7.45	578723	584740	-1
c - 36	7.77	580543	584740	-1

* One compound allowed %D <= 50%

Samples
17I0243-10@100X
17I0325-09@25X
17I0243-13@50X
17I0243-01@100X
17I0243-04@100X
17I0241-01
17I0241-19
17I0242-12
17I0244-20
17I0241-10

D:\HPCHEM\1\DATA\A091817.SEC\A0918007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/18/17
Data File Name	A0918007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	581338	613480	-5
c - 10	1.62	590044	613480	-4
c - 12	2.35	610454	613480	0
c - 14	3.01	623043	613480	2
c - 16	3.61	636307	613480	4
c - 18	4.22	627076	613480	2
o-Terphenyl	4.51	701281	613480	
c - 20	4.83	633341	613480	3
c - 22	5.33	641200	613480	5
c - 24	5.77	596838	613480	-3
c - 26	6.16	627131	613480	2
c - 28	6.52	618155	613480	1
c - 30	6.85	611718	613480	0
c - 32	7.16	596634	613480	-3
c - 34	7.45	602173	613480	-2
c - 36	7.77	606746	613480	-1

* One compound allowed %D <= 50%

Samples
17I0247-01
17I0247-02
17I0374-01
17I0240-10
17I0374-03
17I0234-03@5X
17I0234-08@5X

17

D:\HPCHEM\1\DATA\A091817.SEC\A0918085.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0918085.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	598055	624504	-4
c - 10	1.62	609412	624504	-2
c - 12	2.35	625871	624504	0
c - 14	3.01	635493	624504	2
c - 16	3.61	646457	624504	4
c - 18	4.22	635302	624504	2
o-Terphenyl	4.51	709050	624504	
c - 20	4.83	641129	624504	3
c - 22	5.33	647836	624504	4
c - 24	5.77	602062	624504	-4
c - 26	6.16	632014	624504	1
c - 28	6.52	624647	624504	0
c - 30	6.85	623289	624504	0
c - 32	7.16	611360	624504	-2
c - 34	7.45	617687	624504	-1
c - 36	7.77	616942	624504	-1

* One compound allowed %D <= 50%

Samples

17I0317-04
17I0317-12
17I0317-20
17I0320-04
17I0320-08
17I0320-16

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919035.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples
17I0242-15@20X
17I0244-05@20X
17I0244-14@20X
17I0320-19@5X
17I0321-05@5X
17I0321-08@5X
17I0242-06@20X
17I0242-09@20X
17I0241-04@20X
17I0241-13@20X
17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919081.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples
17I0531-03
17I0531-04
17I0656-01
17I0378-12@5X
17I0378-14@10X
17I0319-08@5X
17I0319-16@5X
17I0320-08@5X
17I0320-12@5X
17I0321-02@20X
17I0455-01@20X
17I0531-01
17I0531-02

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0320

Laboratory Sample ID(s):

17I0320-01 thru 17I0320-20

Sample Date(s):

09/08/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/22/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 21, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0321

Enclosed are results of analyses for samples received by the laboratory on September 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/21/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0321

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-12W-SO-109-3	17I0321-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-108-1	17I0321-02	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC-12W-SO-108-2	17I0321-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-108-3	17I0321-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-106-1	17I0321-05	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC-12W-SO-106-2	17I0321-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-106-3	17I0321-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-DUP52	17I0321-08	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-DUP53	17I0321-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP54	17I0321-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP55	17I0321-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP56	17I0321-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP57	17I0321-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP58	17I0321-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-DUP59	17I0321-15	Soil		SM 2540G	
				SW-846 8082A	

con-test® ANALYTICAL LABORATORY

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

CTDEP ETPH

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl

17I0321-02[WS-AOC-12W-SO-108-1]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-3 Sampled: 9/8/2017 13:06

Sample ID: 17I0321-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.4	30-150		9/20/17 18:54
Decachlorobiphenyl [2]	89.0	30-150		9/20/17 18:54
Tetrachloro-m-xylene [1]	91.0	30-150		9/20/17 18:54
Tetrachloro-m-xylene [2]	94.3	30-150		9/20/17 18:54

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-3 Sampled: 9/8/2017 13:06

Sample ID: 17I0321-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	58.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1 Sampled: 9/8/2017 13:27

Sample ID: 17I0321-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Acenaphthylene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Anthracene	0.37	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(a)anthracene	1.3	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(a)pyrene	1.2	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(b)fluoranthene	1.4	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(g,h,i)perylene	0.63	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(k)fluoranthene	0.47	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Chrysene	1.2	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Dibenz(a,h)anthracene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Fluoranthene	3.2	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Fluorene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Indeno(1,2,3-cd)pyrene	0.71	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
2-Methylnaphthalene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Naphthalene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Phenanthrene	1.7	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Pyrene	2.5	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	60.4	30-130		9/18/17 15:49
2-Fluorobiphenyl	74.2	30-130		9/18/17 15:49
p-Terphenyl-d14	79.3	30-130		9/18/17 15:49

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1 Sampled: 9/8/2017 13:27

Sample ID: 17I0321-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.1	30-150		9/20/17 19:12
Decachlorobiphenyl [2]	78.6	30-150		9/20/17 19:12
Tetrachloro-m-xylene [1]	90.6	30-150		9/20/17 19:12
Tetrachloro-m-xylene [2]	93.7	30-150		9/20/17 19:12

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1 Sampled: 9/8/2017 13:27

Sample ID: 17I0321-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1300	280	mg/Kg dry	20		CTDEP ETPH	9/15/17	9/20/17 3:29	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/20/17 3:29

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1 Sampled: 9/8/2017 13:27

Sample ID: 17I0321-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-2 Sampled: 9/8/2017 13:28

Sample ID: 17I0321-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	57.3	30-150		9/20/17 19:30
Decachlorobiphenyl [2]	69.6	30-150		9/20/17 19:30
Tetrachloro-m-xylene [1]	74.8	30-150		9/20/17 19:30
Tetrachloro-m-xylene [2]	79.2	30-150		9/20/17 19:30

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-2 Sampled: 9/8/2017 13:28

Sample ID: 17I0321-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	59.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-3 Sampled: 9/8/2017 13:29

Sample ID: 17I0321-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.8	30-150		9/20/17 19:48
Decachlorobiphenyl [2]	91.4	30-150		9/20/17 19:48
Tetrachloro-m-xylene [1]	94.5	30-150		9/20/17 19:48
Tetrachloro-m-xylene [2]	95.9	30-150		9/20/17 19:48

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-3 Sampled: 9/8/2017 13:29

Sample ID: 17I0321-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	55.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1 Sampled: 9/8/2017 14:23

Sample ID: 17I0321-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Acenaphthylene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Anthracene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(a)anthracene	0.95	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(a)pyrene	0.98	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(b)fluoranthene	1.2	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(g,h,i)perylene	0.57	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(k)fluoranthene	0.44	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Chrysene	0.92	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Dibenz(a,h)anthracene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Fluoranthene	2.2	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Fluorene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Indeno(1,2,3-cd)pyrene	0.63	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
2-Methylnaphthalene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Naphthalene	0.32	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Phenanthrene	0.52	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Pyrene	2.0	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	55.7	30-130		9/18/17 16:14
2-Fluorobiphenyl	62.6	30-130		9/18/17 16:14
p-Terphenyl-d14	64.2	30-130		9/18/17 16:14

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1 Sampled: 9/8/2017 14:23

Sample ID: 17I0321-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.3	30-150		9/20/17 20:06
Decachlorobiphenyl [2]	87.6	30-150		9/20/17 20:06
Tetrachloro-m-xylene [1]	87.6	30-150		9/20/17 20:06
Tetrachloro-m-xylene [2]	91.1	30-150		9/20/17 20:06

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1 Sampled: 9/8/2017 14:23

Sample ID: 17I0321-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	410	85	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/19/17 18:56	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	55.4	50-150		9/19/17 18:56

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1 Sampled: 9/8/2017 14:23

Sample ID: 17I0321-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	58.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-2 Sampled: 9/8/2017 14:24

Sample ID: 17I0321-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.7	30-150		9/20/17 20:24
Decachlorobiphenyl [2]	90.0	30-150		9/20/17 20:24
Tetrachloro-m-xylene [1]	87.2	30-150		9/20/17 20:24
Tetrachloro-m-xylene [2]	91.4	30-150		9/20/17 20:24

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-2 Sampled: 9/8/2017 14:24

Sample ID: 17I0321-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	61.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-3 Sampled: 9/8/2017 14:25

Sample ID: 17I0321-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.1	30-150		9/20/17 20:41
Decachlorobiphenyl [2]	93.5	30-150		9/20/17 20:41
Tetrachloro-m-xylene [1]	95.5	30-150		9/20/17 20:41
Tetrachloro-m-xylene [2]	97.2	30-150		9/20/17 20:41

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-3 Sampled: 9/8/2017 14:25

Sample ID: 17I0321-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	56.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP52 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.5	30-150		9/20/17 20:59
Decachlorobiphenyl [2]	89.4	30-150		9/20/17 20:59
Tetrachloro-m-xylene [1]	91.8	30-150		9/20/17 20:59
Tetrachloro-m-xylene [2]	94.7	30-150		9/20/17 20:59

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP52 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	200	80	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/19/17 19:14	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	73.8	50-150		9/19/17 19:14

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP52 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	62.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP53 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.6	30-150		9/20/17 22:58
Decachlorobiphenyl [2]	93.5	30-150		9/20/17 22:58
Tetrachloro-m-xylene [1]	97.4	30-150		9/20/17 22:58
Tetrachloro-m-xylene [2]	100	30-150		9/20/17 22:58

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP53 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	60.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP54 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.4	30-150		9/20/17 23:15
Decachlorobiphenyl [2]	90.8	30-150		9/20/17 23:15
Tetrachloro-m-xylene [1]	90.1	30-150		9/20/17 23:15
Tetrachloro-m-xylene [2]	92.8	30-150		9/20/17 23:15

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP54 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.2		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP55 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.8	30-150		9/20/17 23:33
Decachlorobiphenyl [2]	86.8	30-150		9/20/17 23:33
Tetrachloro-m-xylene [1]	90.6	30-150		9/20/17 23:33
Tetrachloro-m-xylene [2]	93.0	30-150		9/20/17 23:33

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP55 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP56 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.1	30-150		9/20/17 23:50
Decachlorobiphenyl [2]	112	30-150		9/20/17 23:50
Tetrachloro-m-xylene [1]	77.5	30-150		9/20/17 23:50
Tetrachloro-m-xylene [2]	81.3	30-150		9/20/17 23:50

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP56 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.7		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP57 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.2	30-150		9/21/17 0:08
Decachlorobiphenyl [2]	92.0	30-150		9/21/17 0:08
Tetrachloro-m-xylene [1]	96.8	30-150		9/21/17 0:08
Tetrachloro-m-xylene [2]	100	30-150		9/21/17 0:08

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP57 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP58 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.5	30-150		9/21/17 0:26
Decachlorobiphenyl [2]	89.5	30-150		9/21/17 0:26
Tetrachloro-m-xylene [1]	95.1	30-150		9/21/17 0:26
Tetrachloro-m-xylene [2]	97.4	30-150		9/21/17 0:26

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP58 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-DUP59 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.8	30-150		9/21/17 0:43
Decachlorobiphenyl [2]	95.2	30-150		9/21/17 0:43
Tetrachloro-m-xylene [1]	92.1	30-150		9/21/17 0:43
Tetrachloro-m-xylene [2]	93.2	30-150		9/21/17 0:43

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-DUP59 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	57.7		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0321-02 [WS-AOC-12W-SO-108-1]	B186332	30.0	1.00	09/15/17
17I0321-05 [WS-AOC-12W-SO-106-1]	B186332	30.1	1.00	09/15/17
17I0321-08 [WS-AOC-15-SO-DUP52]	B186332	30.1	1.00	09/15/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0321-01 [WS-AOC-12W-SO-109-3]	B186207	09/14/17
17I0321-02 [WS-AOC-12W-SO-108-1]	B186207	09/14/17
17I0321-03 [WS-AOC-12W-SO-108-2]	B186207	09/14/17
17I0321-04 [WS-AOC-12W-SO-108-3]	B186207	09/14/17
17I0321-05 [WS-AOC-12W-SO-106-1]	B186207	09/14/17
17I0321-06 [WS-AOC-12W-SO-106-2]	B186207	09/14/17
17I0321-07 [WS-AOC-12W-SO-106-3]	B186207	09/14/17
17I0321-08 [WS-AOC-15-SO-DUP52]	B186207	09/14/17
17I0321-09 [WS-AOC-15-SO-DUP53]	B186207	09/14/17
17I0321-10 [WS-AOC-6-SO-DUP54]	B186207	09/14/17
17I0321-11 [WS-AOC-6-SO-DUP55]	B186207	09/14/17
17I0321-12 [WS-AOC-6-SO-DUP56]	B186207	09/14/17
17I0321-13 [WS-AOC-6-SO-DUP57]	B186207	09/14/17
17I0321-14 [WS-AOC-6-SO-DUP58]	B186207	09/14/17
17I0321-15 [WS-AOC-12W-SO-DUP59]	B186207	09/14/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0321-01 [WS-AOC-12W-SO-109-3]	B186353	10.4	10.0	09/15/17
17I0321-02 [WS-AOC-12W-SO-108-1]	B186353	10.2	10.0	09/15/17
17I0321-03 [WS-AOC-12W-SO-108-2]	B186353	10.5	10.0	09/15/17
17I0321-04 [WS-AOC-12W-SO-108-3]	B186353	10.6	10.0	09/15/17
17I0321-05 [WS-AOC-12W-SO-106-1]	B186353	10.6	10.0	09/15/17
17I0321-06 [WS-AOC-12W-SO-106-2]	B186353	10.4	10.0	09/15/17
17I0321-07 [WS-AOC-12W-SO-106-3]	B186353	10.4	10.0	09/15/17
17I0321-08 [WS-AOC-15-SO-DUP52]	B186353	10.5	10.0	09/15/17
17I0321-09 [WS-AOC-15-SO-DUP53]	B186353	10.5	10.0	09/15/17
17I0321-10 [WS-AOC-6-SO-DUP54]	B186353	10.6	10.0	09/15/17
17I0321-11 [WS-AOC-6-SO-DUP55]	B186353	10.4	10.0	09/15/17
17I0321-12 [WS-AOC-6-SO-DUP56]	B186353	10.8	10.0	09/15/17
17I0321-13 [WS-AOC-6-SO-DUP57]	B186353	10.6	10.0	09/15/17
17I0321-14 [WS-AOC-6-SO-DUP58]	B186353	10.5	10.0	09/15/17
17I0321-15 [WS-AOC-12W-SO-DUP59]	B186353	10.3	10.0	09/15/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0321-02 [WS-AOC-12W-SO-108-1]	B186330	30.0	1.00	09/15/17
17I0321-05 [WS-AOC-12W-SO-106-1]	B186330	30.1	1.00	09/15/17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186330 - SW-846 3546										
Blank (B186330-BLK1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.21*		mg/Kg wet	3.33		66.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.58*		mg/Kg wet	3.33		77.3	30-130			
Surrogate: p-Terphenyl-d14	*3.26*		mg/Kg wet	3.33		97.9	30-130			
LCS (B186330-BS1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	0.884	0.17	mg/Kg wet	1.67		53.1	40-140			
Acenaphthylene	0.912	0.17	mg/Kg wet	1.67		54.7	40-140			
Anthracene	0.978	0.17	mg/Kg wet	1.67		58.7	40-140			
Benzo(a)anthracene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Benzo(a)pyrene	0.993	0.17	mg/Kg wet	1.67		59.6	40-140			
Benzo(b)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Benzo(g,h,i)perylene	1.03	0.17	mg/Kg wet	1.67		62.1	40-140			
Benzo(k)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Chrysene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Dibenz(a,h)anthracene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140			
Fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Fluorene	0.994	0.17	mg/Kg wet	1.67		59.7	40-140			
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140			
2-Methylnaphthalene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
Naphthalene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140			
Phenanthrene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140			
Pyrene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140			
Surrogate: Nitrobenzene-d5	*2.22*		mg/Kg wet	3.33		66.7	30-130			
Surrogate: 2-Fluorobiphenyl	*2.43*		mg/Kg wet	3.33		73.0	30-130			
Surrogate: p-Terphenyl-d14	*2.58*		mg/Kg wet	3.33		77.3	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186330 - SW-846 3546										
LCS Dup (B186330-BSD1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	8.72	30	
Acenaphthylene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140	8.17	30	
Anthracene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140	6.98	30	
Benzo(a)anthracene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	10.1	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	9.44	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	5.30	30	
Benzo(g,h,i)perylene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	7.53	30	
Benzo(k)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.4	40-140	6.28	30	
Chrysene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	9.46	30	
Dibenz(a,h)anthracene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140	7.48	30	
Fluoranthene	1.10	0.17	mg/Kg wet	1.67		65.7	40-140	6.70	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	6.74	30	
Indeno(1,2,3-cd)pyrene	1.16	0.17	mg/Kg wet	1.67		69.4	40-140	10.7	30	
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.5	40-140	3.68	30	
Naphthalene	1.02	0.17	mg/Kg wet	1.67		61.0	40-140	1.04	30	
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	5.63	30	
Pyrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	7.85	30	
Surrogate: Nitrobenzene-d5	*2.21*		mg/Kg wet	3.33		66.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.53*		mg/Kg wet	3.33		75.8	30-130			
Surrogate: p-Terphenyl-d14	*3.76*		mg/Kg wet	3.33		113	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186353 - SW-846 3540C										
Blank (B186353-BLK1)				Prepared: 09/15/17 Analyzed: 09/19/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.172*		mg/Kg wet	0.200		86.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.204*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg wet	0.200		88.4	30-150			
LCS (B186353-BS1)				Prepared: 09/15/17 Analyzed: 09/19/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		86.2	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		91.9	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.5	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.3	40-140			
Surrogate: Decachlorobiphenyl	*0.171*		mg/Kg wet	0.200		85.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.202*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.178*		mg/Kg wet	0.200		89.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg wet	0.200		88.7	30-150			
LCS Dup (B186353-BSD1)				Prepared: 09/15/17 Analyzed: 09/19/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		83.2	40-140	3.54	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.7	40-140	3.50	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		80.2	40-140	0.900	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		79.6	40-140	0.953	30	
Surrogate: Decachlorobiphenyl	*0.165*		mg/Kg wet	0.200		82.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg wet	0.200		98.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		86.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.170*		mg/Kg wet	0.200		84.9	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186332 - SW-846 3546										
Blank (B186332-BLK1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.07*		mg/Kg wet	3.33		92.1	50-150			
LCS (B186332-BS1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	28.2	10	mg/Kg wet	33.3		84.7	60-120			
Surrogate: o-Terphenyl	*3.55*		mg/Kg wet	3.33		106	50-150			
LCS Dup (B186332-BSD1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	27.2	10	mg/Kg wet	33.3		81.5	60-120	3.82	30	
Surrogate: o-Terphenyl	*3.40*		mg/Kg wet	3.33		102	50-150			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186207 - % Solids										
Duplicate (B186207-DUP7)		**Source: 17I0321-01**		Prepared: 09/14/17 Analyzed: 09/15/17						
% Solids	55.2		% Wt		58.0			4.95	20	
Duplicate (B186207-DUP8)		**Source: 17I0321-02**		Prepared: 09/14/17 Analyzed: 09/15/17						
% Solids	67.5		% Wt		72.1			6.59	20	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17I0321

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	RCB, Soxhlet	EPH	PAHs									# of Containers / Preservation Code / Container Code
								1											# of Containers
								H											2 Preservation Code
								A											3 Container Code
1	WS-AOC-12W-SO-101-3	9/8/17	1300		X	S	U	X											
	~~WS-AOC-12W-SO-102~~							X											
2	WS-AOC-12W-SO-103-1		1327					X	X	X									
3	WS-AOC-12W-SO-103-2		1328					X											
4	WS-AOC-12W-SO-103-3		1329					X											
5	WS-AOC-12W-SO-1001		1423					X	X	X									
6	WS-AOC-12W-SO-1002		1424					X											
7	WS-AOC-12W-SO-1003		1425					X											
8	WS-AOC-15-SO-DUP52		—					X	X										
9	WS-AOC-15-SO-DUP53		—					X											

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/8/17 1520
Received by: (signature)	Date/Time: 9/8/17 1520
Relinquished by: (signature)	Date/Time: 9/8/17 1540
Received by: (signature)	Date/Time: 9/8/17 15.45
Relinquished by: (signature)	Date/Time: 9/8/17 17:07
Received by: (signature)	Date/Time: 9/8/17 1707

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs, Surrogate										
10	WS-ACC-6-30-DUP54	9/8/17	—		X	S	U	X										
11	WS-ACC-6-30-DUP55	↓	—		↓	↓	↓	X										
12	WS-ACC-6-30-DUP56	↓	—		↓	↓	↓	X										
13	WS-ACC-6-30-DUP57	↓	—		↓	↓	↓	X										
14	WS-ACC-6-30-DUP58	↓	—		↓	↓	↓	X										
15	WS-ACC-12W-30-DUP59	↓	—		↓	↓	↓	X										

1																		# of Containers
H																		[2] Preservation Code
A																		[3] Container Code

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)
_____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)
_____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)
_____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/8/17 1520
Received by: (signature)	Date/Time: 9/8/17 1520
Relinquished by: (signature)	Date/Time: 9/8/17 1540
Received by: (signature)	Date/Time: 9/8/17 15:48
Relinquished by: (signature)	Date/Time: 9/8/17 17:07
Received by: (signature)	Date/Time: 9/8/17 1707

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 9/8/17 Time 1708

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.3, 5.6
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? N/A
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	15
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919035.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples
17I0242-15@20X
17I0244-05@20X
17I0244-14@20X
17I0320-19@5X
17I0321-05@5X
17I0321-08@5X
17I0242-06@20X
17I0242-09@20X
17I0241-04@20X
17I0241-13@20X
17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919081.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples
17I0531-03
17I0531-04
17I0656-01
17I0378-12@5X
17I0378-14@10X
17I0319-08@5X
17I0319-16@5X
17I0320-08@5X
17I0320-12@5X
17I0321-02@20X
17I0455-01@20X
17I0531-01
17I0531-02

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0321

Laboratory Sample ID(s):

17I0321-01 thru 17I0321-15

Sample Date(s):

09/08/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/21/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 22, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0378

Enclosed are results of analyses for samples received by the laboratory on September 11, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0378

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-15-SO-20-1	17I0378-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-20-2	17I0378-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-20-3	17I0378-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-29-1	17I0378-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-29-2	17I0378-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-29-3	17I0378-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-29-4	17I0378-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-112-1	17I0378-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-112-2	17I0378-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-112-3	17I0378-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-111-1	17I0378-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-111-2	17I0378-12	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-111-3	17I0378-13	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 8082A	
WS-AOC-12W-SO-105-1	17I0378-14	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-105-2	17I0378-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-105-3	17I0378-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-110-1	17I0378-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-110-2	17I0378-18	Soil		SM 2540G	
				SW-846 8082A	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0378

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-12W-SO-110-3	17I0378-19	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-103-1	17I0378-20	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only As was requested and reported.

CTDEP ETPH

Qualifications:

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

CT ETPH

17I0378-12[WS-AOC-12W-SO-111-2], B186472-MS1, B186472-MSD1

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl

17I0378-01[WS-AOC-15-SO-20-1]

SW-846 8082A

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

Decachlorobiphenyl [2C]

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

Tetrachloro-m-xylene

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

Tetrachloro-m-xylene [2C]

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1 Sampled: 9/11/2017 11:29

Sample ID: 17I0378-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.5	30-150		9/21/17 17:45
Decachlorobiphenyl [2]	84.7	30-150		9/21/17 17:45
Tetrachloro-m-xylene [1]	86.2	30-150		9/21/17 17:45
Tetrachloro-m-xylene [2]	85.6	30-150		9/21/17 17:45

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1 Sampled: 9/11/2017 11:29

Sample ID: 17I0378-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2200	570	mg/Kg dry	50		CTDEP ETPH	9/18/17	9/20/17 19:48	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/20/17 19:48

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1 Sampled: 9/11/2017 11:29

Sample ID: 17I0378-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.7		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-2 Sampled: 9/11/2017 11:30

Sample ID: 17I0378-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.2	30-150		9/21/17 18:02
Decachlorobiphenyl [2]	98.5	30-150		9/21/17 18:02
Tetrachloro-m-xylene [1]	87.0	30-150		9/21/17 18:02
Tetrachloro-m-xylene [2]	88.7	30-150		9/21/17 18:02

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-2 Sampled: 9/11/2017 11:30

Sample ID: 17I0378-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.6		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-3 Sampled: 9/11/2017 11:31

Sample ID: 17I0378-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.6	30-150		9/21/17 18:20
Decachlorobiphenyl [2]	90.2	30-150		9/21/17 18:20
Tetrachloro-m-xylene [1]	82.1	30-150		9/21/17 18:20
Tetrachloro-m-xylene [2]	79.8	30-150		9/21/17 18:20

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-3 Sampled: 9/11/2017 11:31

Sample ID: 17I0378-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1 Sampled: 9/11/2017 11:46

Sample ID: 17I0378-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1221 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1232 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1242 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1248 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1254 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1260 [2]	78	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1262 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1268 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/22/17 7:56
Decachlorobiphenyl [2]	*	30-150	S-01	9/22/17 7:56
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/22/17 7:56
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/22/17 7:56

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1 Sampled: 9/11/2017 11:46

Sample ID: 17I0378-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2 Sampled: 9/11/2017 11:47

Sample ID: 17I0378-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1221 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1232 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1242 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1248 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1254 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1260 [2]	5.9	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1262 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1268 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/22/17 8:08
Decachlorobiphenyl [2]	*	30-150	S-01	9/22/17 8:08
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/22/17 8:08
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/22/17 8:08

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2 Sampled: 9/11/2017 11:47

Sample ID: 17I0378-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3 Sampled: 9/11/2017 11:48

Sample ID: 17I0378-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1260 [2]	0.11	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.1	30-150		9/21/17 19:12
Decachlorobiphenyl [2]	101	30-150		9/21/17 19:12
Tetrachloro-m-xylene [1]	91.9	30-150		9/21/17 19:12
Tetrachloro-m-xylene [2]	91.0	30-150		9/21/17 19:12

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3 Sampled: 9/11/2017 11:48

Sample ID: 17I0378-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	70.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4 Sampled: 9/11/2017 11:49

Sample ID: 17I0378-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.1	30-150		9/21/17 19:30
Decachlorobiphenyl [2]	107	30-150		9/21/17 19:30
Tetrachloro-m-xylene [1]	91.4	30-150		9/21/17 19:30
Tetrachloro-m-xylene [2]	91.3	30-150		9/21/17 19:30

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4 Sampled: 9/11/2017 11:49

Sample ID: 17I0378-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1 Sampled: 9/11/2017 12:15

Sample ID: 17I0378-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.5	30-150		9/21/17 19:47
Decachlorobiphenyl [2]	92.3	30-150		9/21/17 19:47
Tetrachloro-m-xylene [1]	91.0	30-150		9/21/17 19:47
Tetrachloro-m-xylene [2]	92.9	30-150		9/21/17 19:47

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1 Sampled: 9/11/2017 12:15

Sample ID: 17I0378-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2 Sampled: 9/11/2017 12:16

Sample ID: 17I0378-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1260 [1]	0.12	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.5	30-150		9/21/17 20:05
Decachlorobiphenyl [2]	80.5	30-150		9/21/17 20:05
Tetrachloro-m-xylene [1]	72.3	30-150		9/21/17 20:05
Tetrachloro-m-xylene [2]	72.9	30-150		9/21/17 20:05

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2 Sampled: 9/11/2017 12:16

Sample ID: 17I0378-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3 Sampled: 9/11/2017 12:17

Sample ID: 17I0378-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1260 [2]	0.16	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.0	30-150		9/21/17 20:22
Decachlorobiphenyl [2]	81.2	30-150		9/21/17 20:22
Tetrachloro-m-xylene [1]	77.7	30-150		9/21/17 20:22
Tetrachloro-m-xylene [2]	80.2	30-150		9/21/17 20:22

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3 Sampled: 9/11/2017 12:17

Sample ID: 17I0378-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1 Sampled: 9/11/2017 09:35

Sample ID: 17I0378-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.3	30-150		9/21/17 20:39
Decachlorobiphenyl [2]	84.5	30-150		9/21/17 20:39
Tetrachloro-m-xylene [1]	87.9	30-150		9/21/17 20:39
Tetrachloro-m-xylene [2]	92.0	30-150		9/21/17 20:39

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1 Sampled: 9/11/2017 09:35

Sample ID: 17I0378-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2 Sampled: 9/11/2017 09:36

Sample ID: 17I0378-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.9	30-150		9/21/17 20:57
Decachlorobiphenyl [2]	86.0	30-150		9/21/17 20:57
Tetrachloro-m-xylene [1]	90.0	30-150		9/21/17 20:57
Tetrachloro-m-xylene [2]	97.9	30-150		9/21/17 20:57

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2 Sampled: 9/11/2017 09:36

Sample ID: 17I0378-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	91	52	mg/Kg dry	5	MS-09	CTDEP ETPH	9/18/17	9/20/17 1:43	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	83.2	50-150		9/20/17 1:43

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2 Sampled: 9/11/2017 09:36

Sample ID: 17I0378-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.6		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3 Sampled: 9/11/2017 09:37

Sample ID: 17I0378-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.8	30-150		9/21/17 23:04
Decachlorobiphenyl [2]	97.1	30-150		9/21/17 23:04
Tetrachloro-m-xylene [1]	93.3	30-150		9/21/17 23:04
Tetrachloro-m-xylene [2]	96.5	30-150		9/21/17 23:04

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3 Sampled: 9/11/2017 09:37

Sample ID: 17I0378-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.4	mg/Kg dry	1		SW-846 6010C-D	9/18/17	9/19/17 13:58	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3 Sampled: 9/11/2017 09:37

Sample ID: 17I0378-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1 Sampled: 9/11/2017 09:38

Sample ID: 17I0378-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.1	30-150		9/21/17 23:21
Decachlorobiphenyl [2]	94.2	30-150		9/21/17 23:21
Tetrachloro-m-xylene [1]	90.4	30-150		9/21/17 23:21
Tetrachloro-m-xylene [2]	89.7	30-150		9/21/17 23:21

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1 Sampled: 9/11/2017 09:38

Sample ID: 17I0378-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	250	110	mg/Kg dry	10		CTDEP ETPH	9/18/17	9/20/17 2:01	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	64.0	50-150		9/20/17 2:01

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1 Sampled: 9/11/2017 09:38

Sample ID: 17I0378-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2 Sampled: 9/11/2017 09:39

Sample ID: 17I0378-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.5	30-150		9/21/17 23:38
Decachlorobiphenyl [2]	83.7	30-150		9/21/17 23:38
Tetrachloro-m-xylene [1]	84.8	30-150		9/21/17 23:38
Tetrachloro-m-xylene [2]	90.9	30-150		9/21/17 23:38

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2 Sampled: 9/11/2017 09:39

Sample ID: 17I0378-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.5		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3 Sampled: 9/11/2017 09:40

Sample ID: 17I0378-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	41.8	30-150		9/21/17 23:56
Decachlorobiphenyl [2]	50.9	30-150		9/21/17 23:56
Tetrachloro-m-xylene [1]	45.9	30-150		9/21/17 23:56
Tetrachloro-m-xylene [2]	44.6	30-150		9/21/17 23:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3 Sampled: 9/11/2017 09:40

Sample ID: 17I0378-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.9		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1 Sampled: 9/11/2017 09:46

Sample ID: 17I0378-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.7	30-150		9/22/17 0:13
Decachlorobiphenyl [2]	78.4	30-150		9/22/17 0:13
Tetrachloro-m-xylene [1]	80.6	30-150		9/22/17 0:13
Tetrachloro-m-xylene [2]	85.8	30-150		9/22/17 0:13

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1 Sampled: 9/11/2017 09:46

Sample ID: 17I0378-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2 Sampled: 9/11/2017 09:47

Sample ID: 17I0378-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1221 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1232 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1242 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1248 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1254 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1260 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1262 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1268 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.1	30-150		9/22/17 0:31
Decachlorobiphenyl [2]	85.5	30-150		9/22/17 0:31
Tetrachloro-m-xylene [1]	82.3	30-150		9/22/17 0:31
Tetrachloro-m-xylene [2]	88.2	30-150		9/22/17 0:31

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2 Sampled: 9/11/2017 09:47

Sample ID: 17I0378-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3 Sampled: 9/11/2017 09:48

Sample ID: 17I0378-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.8	30-150		9/22/17 0:48
Decachlorobiphenyl [2]	89.4	30-150		9/22/17 0:48
Tetrachloro-m-xylene [1]	88.2	30-150		9/22/17 0:48
Tetrachloro-m-xylene [2]	92.8	30-150		9/22/17 0:48

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3 Sampled: 9/11/2017 09:48

Sample ID: 17I0378-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	66	53	mg/Kg dry	5		CTDEP ETPH	9/18/17	9/20/17 19:13	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	74.8	50-150		9/20/17 19:13

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3 Sampled: 9/11/2017 09:48

Sample ID: 17I0378-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1 Sampled: 9/11/2017 09:54

Sample ID: 17I0378-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.8	30-150		9/22/17 1:06
Decachlorobiphenyl [2]	87.4	30-150		9/22/17 1:06
Tetrachloro-m-xylene [1]	86.3	30-150		9/22/17 1:06
Tetrachloro-m-xylene [2]	91.6	30-150		9/22/17 1:06

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1 Sampled: 9/11/2017 09:54

Sample ID: 17I0378-20

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	23	11	mg/Kg dry	1		CTDEP ETPH	9/18/17	9/20/17 7:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	79.8	50-150		9/20/17 7:54

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1 Sampled: 9/11/2017 09:54

Sample ID: 17I0378-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.7		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-01 [WS-AOC-15-SO-20-1]	B186472	30.2	1.00	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186472	30.0	1.00	09/18/17
17I0378-14 [WS-AOC-12W-SO-105-1]	B186472	30.0	1.00	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186472	30.1	1.00	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186472	30.1	1.00	09/18/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0378-01 [WS-AOC-15-SO-20-1]	B186437	09/18/17
17I0378-02 [WS-AOC-15-SO-20-2]	B186437	09/18/17
17I0378-03 [WS-AOC-15-SO-20-3]	B186437	09/18/17
17I0378-04 [WS-AOC-9-SO-29-1]	B186437	09/18/17
17I0378-05 [WS-AOC-9-SO-29-2]	B186437	09/18/17
17I0378-06 [WS-AOC-9-SO-29-3]	B186437	09/18/17
17I0378-07 [WS-AOC-9-SO-29-4]	B186437	09/18/17
17I0378-08 [WS-AOC-12W-SO-112-1]	B186437	09/18/17
17I0378-09 [WS-AOC-12W-SO-112-2]	B186437	09/18/17
17I0378-10 [WS-AOC-12W-SO-112-3]	B186437	09/18/17
17I0378-11 [WS-AOC-12W-SO-111-1]	B186437	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186437	09/18/17
17I0378-13 [WS-AOC-12W-SO-111-3]	B186437	09/18/17
17I0378-14 [WS-AOC-12W-SO-105-1]	B186437	09/18/17
17I0378-15 [WS-AOC-12W-SO-105-2]	B186437	09/18/17
17I0378-16 [WS-AOC-12W-SO-105-3]	B186437	09/18/17
17I0378-17 [WS-AOC-12W-SO-110-1]	B186437	09/18/17
17I0378-18 [WS-AOC-12W-SO-110-2]	B186437	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186437	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186437	09/18/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-13 [WS-AOC-12W-SO-111-3]	B186450	1.08	50.0	09/18/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-01 [WS-AOC-15-SO-20-1]	B186484	10.1	10.0	09/18/17
17I0378-02 [WS-AOC-15-SO-20-2]	B186484	10.2	10.0	09/18/17
17I0378-03 [WS-AOC-15-SO-20-3]	B186484	10.2	10.0	09/18/17
17I0378-04 [WS-AOC-9-SO-29-1]	B186484	10.0	10.0	09/18/17
17I0378-05 [WS-AOC-9-SO-29-2]	B186484	10.0	10.0	09/18/17
17I0378-06 [WS-AOC-9-SO-29-3]	B186484	10.2	10.0	09/18/17
17I0378-07 [WS-AOC-9-SO-29-4]	B186484	10.0	10.0	09/18/17
17I0378-08 [WS-AOC-12W-SO-112-1]	B186484	10.2	10.0	09/18/17
17I0378-09 [WS-AOC-12W-SO-112-2]	B186484	10.0	10.0	09/18/17
17I0378-10 [WS-AOC-12W-SO-112-3]	B186484	10.1	10.0	09/18/17
17I0378-11 [WS-AOC-12W-SO-111-1]	B186484	10.2	10.0	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186484	10.0	10.0	09/18/17
17I0378-13 [WS-AOC-12W-SO-111-3]	B186484	10.2	10.0	09/18/17

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-14 [WS-AOC-12W-SO-105-1]	B186484	10.1	10.0	09/18/17
17I0378-15 [WS-AOC-12W-SO-105-2]	B186484	10.0	10.0	09/18/17
17I0378-16 [WS-AOC-12W-SO-105-3]	B186484	10.0	10.0	09/18/17
17I0378-17 [WS-AOC-12W-SO-110-1]	B186484	10.0	10.0	09/18/17
17I0378-18 [WS-AOC-12W-SO-110-2]	B186484	10.2	10.0	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186484	10.2	10.0	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186484	10.0	10.0	09/18/17

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186484 - SW-846 3540C										
Blank (B186484-BLK1)				Prepared: 09/18/17 Analyzed: 09/21/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.208*		mg/Kg wet	0.200		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg wet	0.200		89.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.194*		mg/Kg wet	0.200		97.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.141*		mg/Kg wet	0.200		70.5	30-150			
LCS (B186484-BS1)				Prepared: 09/18/17 Analyzed: 09/21/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.1	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.3	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.5	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.1	40-140			
Surrogate: Decachlorobiphenyl	*0.205*		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.176*		mg/Kg wet	0.200		88.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.195*		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.144*		mg/Kg wet	0.200		71.8	30-150			
LCS Dup (B186484-BSD1)				Prepared: 09/18/17 Analyzed: 09/21/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.6	40-140	1.78	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		84.0	40-140	0.774	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.1	40-140	0.742	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.9	40-140	1.03	30	
Surrogate: Decachlorobiphenyl	*0.199*		mg/Kg wet	0.200		99.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.175*		mg/Kg wet	0.200		87.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.150*		mg/Kg wet	0.200		74.9	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186484 - SW-846 3540C										
Matrix Spike (B186484-MS1)		**Source: 17I0378-09**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.17	0.086	mg/Kg dry	0.214	ND	80.3	40-140			
Aroclor-1016 [2C]	0.16	0.086	mg/Kg dry	0.214	ND	73.9	40-140			
Aroclor-1260	0.23	0.086	mg/Kg dry	0.214	0.12	52.2	40-140			
Aroclor-1260 [2C]	0.24	0.086	mg/Kg dry	0.214	0.11	62.4	40-140			
Surrogate: Decachlorobiphenyl	*0.167*		mg/Kg dry	0.214		77.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.195*		mg/Kg dry	0.214		91.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg dry	0.214		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.186*		mg/Kg dry	0.214		86.8	30-150			
Matrix Spike (B186484-MS2)		**Source: 17I0378-12**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.17	0.081	mg/Kg dry	0.203	ND	85.4	40-140			
Aroclor-1016 [2C]	0.17	0.081	mg/Kg dry	0.203	ND	85.8	40-140			
Aroclor-1260	0.15	0.081	mg/Kg dry	0.203	ND	72.2	40-140			
Aroclor-1260 [2C]	0.15	0.081	mg/Kg dry	0.203	ND	73.8	40-140			
Surrogate: Decachlorobiphenyl	*0.155*		mg/Kg dry	0.203		76.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.168*		mg/Kg dry	0.203		82.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.178*		mg/Kg dry	0.203		87.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.188*		mg/Kg dry	0.203		92.8	30-150			
Matrix Spike (B186484-MS3)		**Source: 17I0378-15**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.20	0.085	mg/Kg dry	0.212	ND	92.3	40-140			
Aroclor-1016 [2C]	0.19	0.085	mg/Kg dry	0.212	ND	88.7	40-140			
Aroclor-1260	0.17	0.085	mg/Kg dry	0.212	ND	81.2	40-140			
Aroclor-1260 [2C]	0.18	0.085	mg/Kg dry	0.212	ND	84.9	40-140			
Surrogate: Decachlorobiphenyl	*0.178*		mg/Kg dry	0.212		83.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg dry	0.212		92.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg dry	0.212		96.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.209*		mg/Kg dry	0.212		98.8	30-150			
Matrix Spike (B186484-MS4)		**Source: 17I0378-18**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.083	mg/Kg dry	0.208	ND	91.0	40-140			
Aroclor-1016 [2C]	0.19	0.083	mg/Kg dry	0.208	ND	92.4	40-140			
Aroclor-1260	0.16	0.083	mg/Kg dry	0.208	ND	76.5	40-140			
Aroclor-1260 [2C]	0.17	0.083	mg/Kg dry	0.208	ND	81.8	40-140			
Surrogate: Decachlorobiphenyl	*0.165*		mg/Kg dry	0.208		79.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.177*		mg/Kg dry	0.208		85.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.190*		mg/Kg dry	0.208		91.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.210*		mg/Kg dry	0.208		101	30-150			
Matrix Spike Dup (B186484-MSD1)		**Source: 17I0378-09**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.16	0.085	mg/Kg dry	0.212	ND	76.7	40-140	5.63	50	
Aroclor-1016 [2C]	0.15	0.085	mg/Kg dry	0.212	ND	71.7	40-140	3.97	50	
Aroclor-1260	0.21	0.085	mg/Kg dry	0.212	0.12	41.2	40-140	11.2	50	
Aroclor-1260 [2C]	0.22	0.085	mg/Kg dry	0.212	0.11	52.1	40-140	10.1	50	
Surrogate: Decachlorobiphenyl	*0.160*		mg/Kg dry	0.212		75.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.194*		mg/Kg dry	0.212		91.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.198*		mg/Kg dry	0.212		93.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.179*		mg/Kg dry	0.212		84.2	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186484 - SW-846 3540C										
Matrix Spike Dup (B186484-MSD2)		**Source: 17I0378-12**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.082	mg/Kg dry	0.205	ND	90.7	40-140	6.99	50	
Aroclor-1016 [2C]	0.19	0.082	mg/Kg dry	0.205	ND	90.8	40-140	6.64	50	
Aroclor-1260	0.15	0.082	mg/Kg dry	0.205	ND	74.5	40-140	4.12	50	
Aroclor-1260 [2C]	0.16	0.082	mg/Kg dry	0.205	ND	76.7	40-140	4.80	50	
Surrogate: Decachlorobiphenyl	*0.164*		mg/Kg dry	0.205		80.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg dry	0.205		87.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.196*		mg/Kg dry	0.205		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.207*		mg/Kg dry	0.205		101	30-150			
Matrix Spike Dup (B186484-MSD3)		**Source: 17I0378-15**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.084	mg/Kg dry	0.210	ND	91.0	40-140	2.33	50	
Aroclor-1016 [2C]	0.19	0.084	mg/Kg dry	0.210	ND	90.7	40-140	1.20	50	
Aroclor-1260	0.16	0.084	mg/Kg dry	0.210	ND	77.5	40-140	5.58	50	
Aroclor-1260 [2C]	0.17	0.084	mg/Kg dry	0.210	ND	81.7	40-140	4.79	50	
Surrogate: Decachlorobiphenyl	*0.165*		mg/Kg dry	0.210		78.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg dry	0.210		85.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.192*		mg/Kg dry	0.210		91.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.202*		mg/Kg dry	0.210		96.2	30-150			
Matrix Spike Dup (B186484-MSD4)		**Source: 17I0378-18**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.083	mg/Kg dry	0.208	ND	89.7	40-140	1.51	50	
Aroclor-1016 [2C]	0.19	0.083	mg/Kg dry	0.208	ND	90.6	40-140	1.98	50	
Aroclor-1260	0.16	0.083	mg/Kg dry	0.208	ND	77.2	40-140	0.976	50	
Aroclor-1260 [2C]	0.17	0.083	mg/Kg dry	0.208	ND	83.5	40-140	2.09	50	
Surrogate: Decachlorobiphenyl	*0.163*		mg/Kg dry	0.208		78.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.174*		mg/Kg dry	0.208		83.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.182*		mg/Kg dry	0.208		87.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.194*		mg/Kg dry	0.208		93.3	30-150			

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B186472 - SW-846 3546											
Blank (B186472-BLK1)				Prepared: 09/18/17 Analyzed: 09/19/17							
CT ETPH	ND	10	mg/Kg wet								
Surrogate: o-Terphenyl	*2.75*		mg/Kg wet	3.33		82.4		50-150			
LCS (B186472-BS1)				Prepared: 09/18/17 Analyzed: 09/19/17							
CT ETPH	24.8	10	mg/Kg wet	33.3		74.5		60-120			
Surrogate: o-Terphenyl	*2.85*		mg/Kg wet	3.33		85.6		50-150			
LCS Dup (B186472-BSD1)				Prepared: 09/18/17 Analyzed: 09/19/17							
CT ETPH	24.2	10	mg/Kg wet	33.3		72.5		60-120	2.67	30	
Surrogate: o-Terphenyl	*2.73*		mg/Kg wet	3.33		81.8		50-150			
Matrix Spike (B186472-MS1)	**Source: 17I0378-12**			Prepared: 09/18/17 Analyzed: 09/20/17							
CT ETPH	74.4	52	mg/Kg dry	34.4	91.1	**-48.7**	*	50-150			MS-09
Surrogate: o-Terphenyl	*2.70*		mg/Kg dry	3.44		78.4		50-150			
Matrix Spike Dup (B186472-MSD1)	**Source: 17I0378-12**			Prepared: 09/18/17 Analyzed: 09/20/17							
CT ETPH	67.0	52	mg/Kg dry	34.4	91.1	**-70.3**	*	50-150	10.5	30	MS-09
Surrogate: o-Terphenyl	*2.36*		mg/Kg dry	3.44		68.7		50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186450 - SW-846 3050B										
Blank (B186450-BLK1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B186450-BS1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	143	5.0	mg/Kg wet	157		90.9	77.8-122.1			
LCS Dup (B186450-BSD1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	146	4.8	mg/Kg wet	157		93.1	77.8-122.1	2.31	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186437 - % Solids										
Duplicate (B186437-DUP1)		**Source: 17I0378-09**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	92.2		% Wt		93.3			1.19	20	
Duplicate (B186437-DUP2)		**Source: 17I0378-12**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	96.1		% Wt		96.6			0.519	20	
Duplicate (B186437-DUP3)		**Source: 17I0378-15**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	92.8		% Wt		93.5			0.751	20	
Duplicate (B186437-DUP4)		**Source: 17I0378-18**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	96.0		% Wt		96.3			0.312	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-29-1

Lab Sample ID: 17I0378-04

Date(s) Analyzed: 09/22/2017 09/22/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	74	
	2	0.000	-0.030	0.030	78	5.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-29-2

Lab Sample ID: 17I0378-05

Date(s) Analyzed: 09/22/2017 09/22/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	5.7	
	2	0.000	-0.030	0.030	5.9	3.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-SO-112-2

Lab Sample ID: 17I0378-09

Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.12	
	2	0.000	-0.030	0.030	0.11	8.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-SO-112-3

Lab Sample ID: 17I0378-10

Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.16	6.5

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

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con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
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Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCB, Soxhlet	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-POC-15-SO-20-1	9/11/17	1129		X	S	U	X	X			
02	WS-POC-15-SO-20-2	9/11/17	1130		X	S	U	X				
03	WS-POC-15-SO-20-3	9/11/17	1131		X	S	U	X				
04	WS-POC-9-SO-29-1	9/11/17	1146		X	S	U	X				
05	WS-POC-9-SO-29-2	9/11/17	1147		X	S	U	X				
06	WS-POC-9-SO-29-3	9/11/17	1148		X	S	U	X				
07	WS-POC-9-SO-29-4	9/11/17	1149		X	S	U	X				
08	WS-POC-12W-SO-112-1	9/11/17	1215		X	S	U	X				
09	WS-POC-12W-SO-112-2	9/11/17	1216		X	S	U	X				
10	WS-POC-12W-SO-112-3	9/11/17	1217		X	S	U	X				

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.
Please do MS/MSD for WS-POC-12W-SO-112-2

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/11/17 1445
Received by: (signature)	Date/Time: 9/11/17 1445
Relinquished by: (signature)	Date/Time: 9/11/17 1505
Received by: (signature)	Date/Time: 9/11/17 1505
Relinquished by: (signature)	Date/Time: 9/11/17 1630
Received by: (signature) 2.3, 5.9	Date/Time: 9/11/17 1630

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Table of Contents

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

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7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soxhlet	ETPH	Arsenic										# of Containers	[2] Preservation Code	[3] Container Code
								1												1	I	A
11	WS-AOC-12W-SO-111-1	9/11/17	0935		X	S	U	X														
12	WS-AOC-12W-SO-111-2	9/11/17	0936		X	S	U	X	X													
13	WS-AOC-12W-SO-111-3	9/11/17	0937		X	S	U	X		X												
14	WS-AOC-12W-SO-105-1	9/11/17	0938		X	S	U	X	X													
15	WS-AOC-12W-SO-105-2	9/11/17	0939		X	S	U	X														
16	WS-AOC-12W-SO-105-3	9/11/17	0940		X	S	U	X														
17	WS-AOC-12W-SO-110-1	9/11/17	0946		X	S	U	X														
18	WS-AOC-12W-SO-110-2	9/11/17	0947		X	S	U	X														
19	WS-AOC-12W-SO-110-3	9/11/17	0948		X	S	U	X	X													
20	WS-AOC-12W-SO-103-1	9/11/17	0954		X	S	U	X	X													

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
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[2] **Preservation Codes:**
I = Iced
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N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.
please do MS/MSD analysis for WS-AOC-12W-SO-111-2 for PCBs and ETPH, and for WS-AOC-12W-SO-105-2 for only PCBs, and WS-AOC-12W-SO-110-2 for PCBs

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/11/17 1445
Received by: (signature)	Date/Time: 9/11/17 1445
Relinquished by: (signature)	Date/Time: 9/11/17 1505
Received by: (signature)	Date/Time: 9/11/17 1505
Relinquished by: (signature)	Date/Time: 9/11/17 430
Received by: (signature)	Date/Time: 9/11/17 1630

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By RLF Date 9/11/17 Time 1130

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 2.3°C
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ____
Are there Rushes? F Who was notified? ____
Are there Short Holds? F Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? ~~NA~~ T
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? NA
Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	28
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A091917.SEC\A0919137.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0919137.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	620853	652710	-5
c - 10	1.63	631926	652710	-3
c - 12	2.34	650993	652710	0
c - 14	3.01	660660	652710	1
c - 16	3.61	672375	652710	3
c - 18	4.22	661082	652710	1
o-Terphenyl	4.51	734754	652710	
c - 20	4.83	666433	652710	2
c - 22	5.33	671692	652710	3
c - 24	5.77	624925	652710	-4
c - 26	6.16	658424	652710	1
c - 28	6.52	654250	652710	0
c - 30	6.85	655163	652710	0
c - 32	7.16	647569	652710	-1
c - 34	7.45	655759	652710	0
c - 36	7.76	658546	652710	1

* One compound allowed %D <= 50%

Samples

17I0378-20
17I0380-01
17I0380-03
17I0241-04@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919035.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples
17I0242-15@20X
17I0244-05@20X
17I0244-14@20X
17I0320-19@5X
17I0321-05@5X
17I0321-08@5X
17I0242-06@20X
17I0242-09@20X
17I0241-04@20X
17I0241-13@20X
17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919081.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples
17I0531-03
17I0531-04
17I0656-01
17I0378-12@5X
17I0378-14@10X
17I0319-08@5X
17I0319-16@5X
17I0320-08@5X
17I0320-12@5X
17I0321-02@20X
17I0455-01@20X
17I0531-01
17I0531-02

D:\HPCHEM\1\DATA\A092017.SEC\A0920031.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0920031.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	541173	562711	-4
c - 10	1.62	549935	562711	-2
c - 12	2.34	566528	562711	1
c - 14	3.01	574189	562711	2
c - 16	3.61	582627	562711	4
c - 18	4.22	570510	562711	1
o-Terphenyl	4.51	631761	562711	
c - 20	4.83	572845	562711	2
c - 22	5.33	578821	562711	3
c - 24	5.77	538783	562711	-4
c - 26	6.16	569323	562711	1
c - 28	6.52	564215	562711	0
c - 30	6.85	562306	562711	0
c - 32	7.16	552003	562711	-2
c - 34	7.45	557640	562711	-1
c - 36	7.76	559760	562711	-1

* One compound allowed %D <= 50%

Samples

17I0719-02@5X
17I0719-03@50X
17I0719-05@100X
17I0719-06@100X
17I0719-14@100X
17I0719-01@100X
17I0378-19@5X
17I0379-03@50X
17I0378-01@50X
17I0380-04@5X
17I0380-06@20X
17I0380-02@10X
17I0517-13

D:\HPCHEM\1\DATA\A092017.SEC\A0920079.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0920079.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	593179	621951	-5
c - 10	1.62	601870	621951	-3
c - 12	2.34	620530	621951	0
c - 14	3.01	631091	621951	1
c - 16	3.61	641967	621951	3
c - 18	4.22	630375	621951	1
o-Terphenyl	4.51	697469	621951	
c - 20	4.83	634151	621951	2
c - 22	5.33	640559	621951	3
c - 24	5.77	596341	621951	-4
c - 26	6.16	629258	621951	1
c - 28	6.52	625172	621951	1
c - 30	6.85	625957	621951	1
c - 32	7.16	616353	621951	-1
c - 34	7.45	620644	621951	0
c - 36	7.76	621823	621951	0

* One compound allowed %D <= 50%

Samples

17I0517-04
17I0517-09
17I0517-12
17I0462-04
17I0462-17
17I0462-20
17I0463-12
17I0241-10RE1@5X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0378

Laboratory Sample ID(s):

17I0378-01 thru 17I0378-20

Sample Date(s):

09/11/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☐ Yes ☑ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/22/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 25, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0379

Enclosed are results of analyses for samples received by the laboratory on September 11, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/25/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0379

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-12W-SO-103-2	17I0379-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-103-3	17I0379-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-107-1	17I0379-03	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-107-2	17I0379-04	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC-12W-SO-107-3	17I0379-05	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 8082A	
WS-AOC-12W-SO-102-1	17I0379-06	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-102-2	17I0379-07	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 8082A	
WS-AOC-12W-SO-102-3	17I0379-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-104-1	17I0379-09	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-104-2	17I0379-10	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 8082A	
WS-AOC-12W-SO-104-3	17I0379-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-101-1	17I0379-12	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-101-2	17I0379-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-101-3	17I0379-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-100-1	17I0379-15	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-100-2	17I0379-16	Soil		SM 2540G	
				SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/25/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0379

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-12W-SO-100-3	17I0379-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-99-1	17I0379-18	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-99-2	17I0379-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-99-3	17I0379-20	Soil		SM 2540G	
				SW-846 8082A	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.
For method 6010, only As was requested and reported.

CTDEP ETPH

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl
17I0379-03[WS-AOC-12W-SO-107-1]

SW-846 6010C-D

Qualifications:

MS-12

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Arsenic
17I0379-07RE1[WS-AOC-12W-SO-102-2], B186711-MS1, B186711-MSD1

SW-846 8082A

Qualifications:

S-02

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl [2C]
17I0379-03[WS-AOC-12W-SO-107-1]

S-12

Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not affected.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl [2C]
17I0379-03[WS-AOC-12W-SO-107-1]

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-2 Sampled: 9/11/2017 09:55

Sample ID: 17I0379-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:15	JMB
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:15	JMB
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:15	JMB
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:15	JMB
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:15	JMB
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:15	JMB
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:15	JMB
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:15	JMB
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:15	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.2	30-150		9/23/17 17:15
Decachlorobiphenyl [2]	83.6	30-150		9/23/17 17:15
Tetrachloro-m-xylene [1]	80.1	30-150		9/23/17 17:15
Tetrachloro-m-xylene [2]	78.1	30-150		9/23/17 17:15

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-2 Sampled: 9/11/2017 09:55

Sample ID: 17I0379-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.7		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-3 Sampled: 9/11/2017 09:56

Sample ID: 17I0379-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:32	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:32	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:32	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:32	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:32	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:32	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:32	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:32	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:32	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.6	30-150		9/23/17 17:32
Decachlorobiphenyl [2]	95.0	30-150		9/23/17 17:32
Tetrachloro-m-xylene [1]	98.8	30-150		9/23/17 17:32
Tetrachloro-m-xylene [2]	95.4	30-150		9/23/17 17:32

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-3 Sampled: 9/11/2017 09:56

Sample ID: 17I0379-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.5		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-107-1 Sampled: 9/11/2017 10:11

Sample ID: 17I0379-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:50	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:50	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:50	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:50	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:50	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:50	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:50	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:50	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:50	JMB

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.2		30-150		9/23/17 17:50
Decachlorobiphenyl [2]	**152**	*	30-150	S-02, S-12	9/23/17 17:50
Tetrachloro-m-xylene [1]	80.3		30-150		9/23/17 17:50
Tetrachloro-m-xylene [2]	81.6		30-150		9/23/17 17:50

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-107-1 Sampled: 9/11/2017 10:11

Sample ID: 17I0379-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2400	770	mg/Kg dry	50		CTDEP ETPH	9/18/17	9/20/17 19:30	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/20/17 19:30

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-107-1 Sampled: 9/11/2017 10:11

Sample ID: 17I0379-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	64.0		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-107-2 Sampled: 9/11/2017 10:12

Sample ID: 17I0379-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Acenaphthylene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Anthracene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Benzo(a)anthracene	0.86	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Benzo(a)pyrene	0.92	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Benzo(b)fluoranthene	1.0	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Benzo(g,h,i)perylene	0.51	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Benzo(k)fluoranthene	0.36	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Chrysene	0.80	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Dibenz(a,h)anthracene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Fluoranthene	1.8	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Fluorene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Indeno(1,2,3-cd)pyrene	0.54	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
2-Methylnaphthalene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Naphthalene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Phenanthrene	0.75	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Pyrene	1.7	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	60.1	30-130		9/18/17 16:39
2-Fluorobiphenyl	71.4	30-130		9/18/17 16:39
p-Terphenyl-d14	80.7	30-130		9/18/17 16:39

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-107-2 Sampled: 9/11/2017 10:12

Sample ID: 17I0379-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:07	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:07	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:07	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:07	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:07	JMB
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:07	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:07	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:07	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:07	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.5	30-150		9/23/17 18:07
Decachlorobiphenyl [2]	94.3	30-150		9/23/17 18:07
Tetrachloro-m-xylene [1]	95.0	30-150		9/23/17 18:07
Tetrachloro-m-xylene [2]	91.9	30-150		9/23/17 18:07

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-107-2 Sampled: 9/11/2017 10:12

Sample ID: 17I0379-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	58.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-107-3 Sampled: 9/11/2017 10:13

Sample ID: 17I0379-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:24	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:24	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:24	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:24	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:24	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:24	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:24	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:24	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.5	30-150		9/23/17 18:24
Decachlorobiphenyl [2]	107	30-150		9/23/17 18:24
Tetrachloro-m-xylene [1]	92.3	30-150		9/23/17 18:24
Tetrachloro-m-xylene [2]	89.3	30-150		9/23/17 18:24

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-107-3 Sampled: 9/11/2017 10:13

Sample ID: 17I0379-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	3.6	mg/Kg dry	1		SW-846 6010C-D	9/19/17	9/20/17 13:24	QNW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-107-3 Sampled: 9/11/2017 10:13

Sample ID: 17I0379-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	70.5		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-102-1 Sampled: 9/11/2017 10:04

Sample ID: 17I0379-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:41	JMB
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:41	JMB
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:41	JMB
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:41	JMB
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:41	JMB
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:41	JMB
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:41	JMB
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:41	JMB
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:41	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.6	30-150		9/23/17 18:41
Decachlorobiphenyl [2]	92.3	30-150		9/23/17 18:41
Tetrachloro-m-xylene [1]	94.2	30-150		9/23/17 18:41
Tetrachloro-m-xylene [2]	91.4	30-150		9/23/17 18:41

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-102-1 Sampled: 9/11/2017 10:04

Sample ID: 17I0379-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	44	11	mg/Kg dry	1		CTDEP ETPH	9/18/17	9/20/17 7:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	99.1	50-150		9/20/17 7:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-102-1 Sampled: 9/11/2017 10:04

Sample ID: 17I0379-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.0		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-102-2 Sampled: 9/11/2017 10:05

Sample ID: 17I0379-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:59	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:59	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:59	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:59	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:59	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:59	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:59	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:59	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.9	30-150		9/23/17 18:59
Decachlorobiphenyl [2]	81.0	30-150		9/23/17 18:59
Tetrachloro-m-xylene [1]	82.4	30-150		9/23/17 18:59
Tetrachloro-m-xylene [2]	78.7	30-150		9/23/17 18:59

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-102-2 Sampled: 9/11/2017 10:05

Sample ID: 17I0379-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	90	2.7	mg/Kg dry	1	MS-12	SW-846 6010C-D	9/20/17	9/21/17 11:22	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-102-2 Sampled: 9/11/2017 10:05

Sample ID: 17I0379-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-102-3 Sampled: 9/11/2017 10:06

Sample ID: 17I0379-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:03	JMB
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:03	JMB
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:03	JMB
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:03	JMB
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:03	JMB
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:03	JMB
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:03	JMB
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:03	JMB
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:03	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.3	30-150		9/23/17 20:03
Decachlorobiphenyl [2]	89.8	30-150		9/23/17 20:03
Tetrachloro-m-xylene [1]	99.3	30-150		9/23/17 20:03
Tetrachloro-m-xylene [2]	93.0	30-150		9/23/17 20:03

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-102-3 Sampled: 9/11/2017 10:06

Sample ID: 17I0379-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-104-1 Sampled: 9/11/2017 10:12

Sample ID: 17I0379-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:20	JMB
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:20	JMB
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:20	JMB
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:20	JMB
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:20	JMB
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:20	JMB
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:20	JMB
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:20	JMB
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:20	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.4	30-150		9/23/17 20:20
Decachlorobiphenyl [2]	106	30-150		9/23/17 20:20
Tetrachloro-m-xylene [1]	105	30-150		9/23/17 20:20
Tetrachloro-m-xylene [2]	101	30-150		9/23/17 20:20

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-104-1 Sampled: 9/11/2017 10:12

Sample ID: 17I0379-09

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	20	10	mg/Kg dry	1		CTDEP ETPH	9/18/17	9/20/17 8:12	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	97.2	50-150		9/20/17 8:12

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-104-1 Sampled: 9/11/2017 10:12

Sample ID: 17I0379-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.9		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-104-2 Sampled: 9/11/2017 10:13

Sample ID: 17I0379-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:37	JMB
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:37	JMB
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:37	JMB
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:37	JMB
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:37	JMB
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:37	JMB
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:37	JMB
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:37	JMB
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:37	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.3	30-150		9/23/17 20:37
Decachlorobiphenyl [2]	106	30-150		9/23/17 20:37
Tetrachloro-m-xylene [1]	99.8	30-150		9/23/17 20:37
Tetrachloro-m-xylene [2]	96.3	30-150		9/23/17 20:37

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-104-2 Sampled: 9/11/2017 10:13

Sample ID: 17I0379-10

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	3.6	2.6	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/21/17 11:53	QNW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-104-2 Sampled: 9/11/2017 10:13

Sample ID: 17I0379-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-104-3 Sampled: 9/11/2017 10:14

Sample ID: 17I0379-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:54	JMB
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:54	JMB
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:54	JMB
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:54	JMB
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:54	JMB
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:54	JMB
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:54	JMB
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:54	JMB
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:54	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.6	30-150		9/23/17 20:54
Decachlorobiphenyl [2]	103	30-150		9/23/17 20:54
Tetrachloro-m-xylene [1]	100	30-150		9/23/17 20:54
Tetrachloro-m-xylene [2]	96.3	30-150		9/23/17 20:54

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-104-3 Sampled: 9/11/2017 10:14

Sample ID: 17I0379-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.7		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-101-1 Sampled: 9/11/2017 10:25

Sample ID: 17I0379-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:12	JMB
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:12	JMB
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:12	JMB
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:12	JMB
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:12	JMB
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:12	JMB
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:12	JMB
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:12	JMB
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:12	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.9	30-150		9/23/17 21:12
Decachlorobiphenyl [2]	100	30-150		9/23/17 21:12
Tetrachloro-m-xylene [1]	98.2	30-150		9/23/17 21:12
Tetrachloro-m-xylene [2]	94.3	30-150		9/23/17 21:12

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-101-1 Sampled: 9/11/2017 10:25

Sample ID: 17I0379-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	15	10	mg/Kg dry	1		CTDEP ETPH	9/18/17	9/20/17 8:30	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	95.9	50-150		9/20/17 8:30

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-101-1 Sampled: 9/11/2017 10:25

Sample ID: 17I0379-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.9		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-101-2 Sampled: 9/11/2017 10:26

Sample ID: 17I0379-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:29	JMB
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:29	JMB
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:29	JMB
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:29	JMB
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:29	JMB
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:29	JMB
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:29	JMB
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:29	JMB
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:29	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.7	30-150		9/23/17 21:29
Decachlorobiphenyl [2]	108	30-150		9/23/17 21:29
Tetrachloro-m-xylene [1]	101	30-150		9/23/17 21:29
Tetrachloro-m-xylene [2]	97.4	30-150		9/23/17 21:29

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-101-2 Sampled: 9/11/2017 10:26

Sample ID: 17I0379-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-101-3 Sampled: 9/11/2017 10:27

Sample ID: 17I0379-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:46	JMB
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:46	JMB
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:46	JMB
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:46	JMB
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:46	JMB
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:46	JMB
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:46	JMB
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:46	JMB
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:46	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.2	30-150		9/23/17 21:46
Decachlorobiphenyl [2]	97.8	30-150		9/23/17 21:46
Tetrachloro-m-xylene [1]	97.7	30-150		9/23/17 21:46
Tetrachloro-m-xylene [2]	91.6	30-150		9/23/17 21:46

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-101-3 Sampled: 9/11/2017 10:27

Sample ID: 17I0379-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.8		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-100-1 Sampled: 9/11/2017 10:32

Sample ID: 17I0379-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:03	JMB
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:03	JMB
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:03	JMB
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:03	JMB
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:03	JMB
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:03	JMB
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:03	JMB
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:03	JMB
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:03	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.6	30-150		9/23/17 22:03
Decachlorobiphenyl [2]	104	30-150		9/23/17 22:03
Tetrachloro-m-xylene [1]	99.3	30-150		9/23/17 22:03
Tetrachloro-m-xylene [2]	97.8	30-150		9/23/17 22:03

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-100-1 Sampled: 9/11/2017 10:32

Sample ID: 17I0379-15

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	28	10	mg/Kg dry	1		CTDEP ETPH	9/18/17	9/20/17 8:47	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	93.7	50-150		9/20/17 8:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-100-1 Sampled: 9/11/2017 10:32

Sample ID: 17I0379-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.8		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-100-2 Sampled: 9/11/2017 10:33

Sample ID: 17I0379-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:20	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:20	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:20	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:20	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:20	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:20	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:20	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:20	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:20	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		9/23/17 22:20
Decachlorobiphenyl [2]	117	30-150		9/23/17 22:20
Tetrachloro-m-xylene [1]	111	30-150		9/23/17 22:20
Tetrachloro-m-xylene [2]	108	30-150		9/23/17 22:20

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-100-2 Sampled: 9/11/2017 10:33

Sample ID: 17I0379-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.6		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-100-3 Sampled: 9/11/2017 10:34

Sample ID: 17I0379-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:38	JMB
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:38	JMB
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:38	JMB
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:38	JMB
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:38	JMB
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:38	JMB
Aroclor-1260 [2]	0.37	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:38	JMB
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:38	JMB
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:38	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.8	30-150		9/23/17 22:38
Decachlorobiphenyl [2]	111	30-150		9/23/17 22:38
Tetrachloro-m-xylene [1]	109	30-150		9/23/17 22:38
Tetrachloro-m-xylene [2]	107	30-150		9/23/17 22:38

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-100-3 Sampled: 9/11/2017 10:34

Sample ID: 17I0379-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.6		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-99-1 Sampled: 9/11/2017 10:37

Sample ID: 17I0379-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:42	JMB
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:42	JMB
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:42	JMB
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:42	JMB
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:42	JMB
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:42	JMB
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:42	JMB
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:42	JMB
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:42	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.7	30-150		9/23/17 23:42
Decachlorobiphenyl [2]	91.5	30-150		9/23/17 23:42
Tetrachloro-m-xylene [1]	98.6	30-150		9/23/17 23:42
Tetrachloro-m-xylene [2]	96.9	30-150		9/23/17 23:42

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-99-1 Sampled: 9/11/2017 10:37

Sample ID: 17I0379-18

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	17	10	mg/Kg dry	1		CTDEP ETPH	9/18/17	9/20/17 9:05	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	90.4	50-150		9/20/17 9:05

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-99-1 Sampled: 9/11/2017 10:37

Sample ID: 17I0379-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-99-2 Sampled: 9/11/2017 10:38

Sample ID: 17I0379-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:59	JMB
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:59	JMB
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:59	JMB
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:59	JMB
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:59	JMB
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:59	JMB
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:59	JMB
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:59	JMB
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.6	30-150		9/23/17 23:59
Decachlorobiphenyl [2]	93.1	30-150		9/23/17 23:59
Tetrachloro-m-xylene [1]	91.6	30-150		9/23/17 23:59
Tetrachloro-m-xylene [2]	89.0	30-150		9/23/17 23:59

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-99-2 Sampled: 9/11/2017 10:38

Sample ID: 17I0379-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-99-3 Sampled: 9/11/2017 10:39

Sample ID: 17I0379-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/24/17 0:16	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/24/17 0:16	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/24/17 0:16	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/24/17 0:16	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/24/17 0:16	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/24/17 0:16	JMB
Aroclor-1260 [1]	0.16	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/24/17 0:16	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/24/17 0:16	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/24/17 0:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.9	30-150		9/24/17 0:16
Decachlorobiphenyl [2]	78.5	30-150		9/24/17 0:16
Tetrachloro-m-xylene [1]	87.7	30-150		9/24/17 0:16
Tetrachloro-m-xylene [2]	85.1	30-150		9/24/17 0:16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-99-3 Sampled: 9/11/2017 10:39

Sample ID: 17I0379-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0379-03 [WS-AOC-12W-SO-107-1]	B186472	30.3	1.00	09/18/17
17I0379-06 [WS-AOC-12W-SO-102-1]	B186472	30.0	1.00	09/18/17
17I0379-09 [WS-AOC-12W-SO-104-1]	B186472	30.1	1.00	09/18/17
17I0379-12 [WS-AOC-12W-SO-101-1]	B186472	30.1	1.00	09/18/17
17I0379-15 [WS-AOC-12W-SO-100-1]	B186472	30.1	1.00	09/18/17
17I0379-18 [WS-AOC-12W-SO-99-1]	B186472	30.0	1.00	09/18/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0379-01 [WS-AOC-12W-SO-103-2]	B186437	09/18/17
17I0379-02 [WS-AOC-12W-SO-103-3]	B186437	09/18/17
17I0379-03 [WS-AOC-12W-SO-107-1]	B186437	09/18/17
17I0379-04 [WS-AOC-12W-SO-107-2]	B186437	09/18/17
17I0379-05 [WS-AOC-12W-SO-107-3]	B186437	09/18/17
17I0379-06 [WS-AOC-12W-SO-102-1]	B186437	09/18/17
17I0379-07 [WS-AOC-12W-SO-102-2]	B186437	09/18/17
17I0379-08 [WS-AOC-12W-SO-102-3]	B186437	09/18/17
17I0379-09 [WS-AOC-12W-SO-104-1]	B186437	09/18/17
17I0379-10 [WS-AOC-12W-SO-104-2]	B186437	09/18/17
17I0379-11 [WS-AOC-12W-SO-104-3]	B186437	09/18/17
17I0379-12 [WS-AOC-12W-SO-101-1]	B186437	09/18/17
17I0379-13 [WS-AOC-12W-SO-101-2]	B186437	09/18/17
17I0379-14 [WS-AOC-12W-SO-101-3]	B186437	09/18/17
17I0379-15 [WS-AOC-12W-SO-100-1]	B186437	09/18/17
17I0379-16 [WS-AOC-12W-SO-100-2]	B186437	09/18/17
17I0379-17 [WS-AOC-12W-SO-100-3]	B186437	09/18/17
17I0379-18 [WS-AOC-12W-SO-99-1]	B186437	09/18/17
17I0379-19 [WS-AOC-12W-SO-99-2]	B186437	09/18/17
17I0379-20 [WS-AOC-12W-SO-99-3]	B186437	09/18/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0379-05 [WS-AOC-12W-SO-107-3]	B186566	0.990	50.0	09/19/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0379-07RE1 [WS-AOC-12W-SO-102-2]	B186711	1.02	50.0	09/20/17
17I0379-10RE1 [WS-AOC-12W-SO-104-2]	B186711	1.00	50.0	09/20/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0379-01 [WS-AOC-12W-SO-103-2]	B186483	10.0	10.0	09/18/17
17I0379-02 [WS-AOC-12W-SO-103-3]	B186483	10.0	10.0	09/18/17
17I0379-03 [WS-AOC-12W-SO-107-1]	B186483	10.0	10.0	09/18/17
17I0379-04 [WS-AOC-12W-SO-107-2]	B186483	10.1	10.0	09/18/17
17I0379-05 [WS-AOC-12W-SO-107-3]	B186483	10.1	10.0	09/18/17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0379-06 [WS-AOC-12W-SO-102-1]	B186483	10.0	10.0	09/18/17
17I0379-07 [WS-AOC-12W-SO-102-2]	B186483	10.0	10.0	09/18/17
17I0379-08 [WS-AOC-12W-SO-102-3]	B186483	10.1	10.0	09/18/17
17I0379-09 [WS-AOC-12W-SO-104-1]	B186483	10.1	10.0	09/18/17
17I0379-10 [WS-AOC-12W-SO-104-2]	B186483	10.1	10.0	09/18/17
17I0379-11 [WS-AOC-12W-SO-104-3]	B186483	10.1	10.0	09/18/17
17I0379-12 [WS-AOC-12W-SO-101-1]	B186483	10.1	10.0	09/18/17
17I0379-13 [WS-AOC-12W-SO-101-2]	B186483	10.1	10.0	09/18/17
17I0379-14 [WS-AOC-12W-SO-101-3]	B186483	10.1	10.0	09/18/17
17I0379-15 [WS-AOC-12W-SO-100-1]	B186483	10.1	10.0	09/18/17
17I0379-16 [WS-AOC-12W-SO-100-2]	B186483	10.0	10.0	09/18/17
17I0379-17 [WS-AOC-12W-SO-100-3]	B186483	10.0	10.0	09/18/17
17I0379-18 [WS-AOC-12W-SO-99-1]	B186483	10.1	10.0	09/18/17
17I0379-19 [WS-AOC-12W-SO-99-2]	B186483	10.1	10.0	09/18/17
17I0379-20 [WS-AOC-12W-SO-99-3]	B186483	10.0	10.0	09/18/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0379-04 [WS-AOC-12W-SO-107-2]	B186330	30.0	1.00	09/15/17

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186330 - SW-846 3546										
Blank (B186330-BLK1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.21*		mg/Kg wet	3.33		66.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.58*		mg/Kg wet	3.33		77.3	30-130			
Surrogate: p-Terphenyl-d14	*3.26*		mg/Kg wet	3.33		97.9	30-130			
LCS (B186330-BS1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	0.884	0.17	mg/Kg wet	1.67		53.1	40-140			
Acenaphthylene	0.912	0.17	mg/Kg wet	1.67		54.7	40-140			
Anthracene	0.978	0.17	mg/Kg wet	1.67		58.7	40-140			
Benzo(a)anthracene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Benzo(a)pyrene	0.993	0.17	mg/Kg wet	1.67		59.6	40-140			
Benzo(b)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Benzo(g,h,i)perylene	1.03	0.17	mg/Kg wet	1.67		62.1	40-140			
Benzo(k)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Chrysene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Dibenz(a,h)anthracene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140			
Fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Fluorene	0.994	0.17	mg/Kg wet	1.67		59.7	40-140			
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140			
2-Methylnaphthalene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
Naphthalene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140			
Phenanthrene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140			
Pyrene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140			
Surrogate: Nitrobenzene-d5	*2.22*		mg/Kg wet	3.33		66.7	30-130			
Surrogate: 2-Fluorobiphenyl	*2.43*		mg/Kg wet	3.33		73.0	30-130			
Surrogate: p-Terphenyl-d14	*2.58*		mg/Kg wet	3.33		77.3	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186330 - SW-846 3546										
LCS Dup (B186330-BSD1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	8.72	30	
Acenaphthylene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140	8.17	30	
Anthracene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140	6.98	30	
Benzo(a)anthracene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	10.1	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	9.44	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	5.30	30	
Benzo(g,h,i)perylene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	7.53	30	
Benzo(k)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.4	40-140	6.28	30	
Chrysene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	9.46	30	
Dibenz(a,h)anthracene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140	7.48	30	
Fluoranthene	1.10	0.17	mg/Kg wet	1.67		65.7	40-140	6.70	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	6.74	30	
Indeno(1,2,3-cd)pyrene	1.16	0.17	mg/Kg wet	1.67		69.4	40-140	10.7	30	
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.5	40-140	3.68	30	
Naphthalene	1.02	0.17	mg/Kg wet	1.67		61.0	40-140	1.04	30	
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	5.63	30	
Pyrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	7.85	30	
Surrogate: Nitrobenzene-d5	*2.21*		mg/Kg wet	3.33		66.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.53*		mg/Kg wet	3.33		75.8	30-130			
Surrogate: p-Terphenyl-d14	*3.76*		mg/Kg wet	3.33		113	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186483 - SW-846 3540C										
Blank (B186483-BLK1)				Prepared: 09/18/17 Analyzed: 09/23/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.175*		mg/Kg wet	0.200		87.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.207*		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.174*		mg/Kg wet	0.200		87.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.174*		mg/Kg wet	0.200		86.8	30-150			
LCS (B186483-BS1)				Prepared: 09/18/17 Analyzed: 09/23/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.8	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.3	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		82.0	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.8	40-140			
Surrogate: Decachlorobiphenyl	*0.170*		mg/Kg wet	0.200		85.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.201*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.174*		mg/Kg wet	0.200		86.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.172*		mg/Kg wet	0.200		85.8	30-150			
LCS Dup (B186483-BSD1)				Prepared: 09/18/17 Analyzed: 09/23/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		79.7	40-140	6.24	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		82.6	40-140	6.59	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		77.5	40-140	5.65	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		76.9	40-140	4.86	30	
Surrogate: Decachlorobiphenyl	*0.167*		mg/Kg wet	0.200		83.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg wet	0.200		97.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.170*		mg/Kg wet	0.200		85.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.167*		mg/Kg wet	0.200		83.4	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186483 - SW-846 3540C										
Matrix Spike (B186483-MS1)		**Source: 17I0379-13**		Prepared: 09/18/17 Analyzed: 09/24/17						
Aroclor-1016	0.22	0.083	mg/Kg dry	0.207	ND	107	40-140			
Aroclor-1016 [2C]	0.22	0.083	mg/Kg dry	0.207	ND	108	40-140			
Aroclor-1260	0.20	0.083	mg/Kg dry	0.207	ND	96.4	40-140			
Aroclor-1260 [2C]	0.20	0.083	mg/Kg dry	0.207	ND	94.9	40-140			
Surrogate: Decachlorobiphenyl	*0.181*		mg/Kg dry	0.207		87.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.213*		mg/Kg dry	0.207		103	30-150			
Surrogate: Tetrachloro-m-xylene	*0.209*		mg/Kg dry	0.207		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.201*		mg/Kg dry	0.207		97.1	30-150			
Matrix Spike (B186483-MS2)		**Source: 17I0379-07**		Prepared: 09/18/17 Analyzed: 09/24/17						
Aroclor-1016	0.20	0.087	mg/Kg dry	0.218	ND	93.2	40-140			
Aroclor-1016 [2C]	0.21	0.087	mg/Kg dry	0.218	ND	95.2	40-140			
Aroclor-1260	0.18	0.087	mg/Kg dry	0.218	ND	81.7	40-140			
Aroclor-1260 [2C]	0.18	0.087	mg/Kg dry	0.218	ND	81.6	40-140			
Surrogate: Decachlorobiphenyl	*0.174*		mg/Kg dry	0.218		79.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.206*		mg/Kg dry	0.218		94.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg dry	0.218		92.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.196*		mg/Kg dry	0.218		89.8	30-150			
Matrix Spike (B186483-MS3)		**Source: 17I0379-10**		Prepared: 09/18/17 Analyzed: 09/24/17						
Aroclor-1016	0.19	0.083	mg/Kg dry	0.207	ND	92.6	40-140			
Aroclor-1016 [2C]	0.20	0.083	mg/Kg dry	0.207	ND	97.4	40-140			
Aroclor-1260	0.19	0.083	mg/Kg dry	0.207	ND	92.2	40-140			
Aroclor-1260 [2C]	0.19	0.083	mg/Kg dry	0.207	ND	91.1	40-140			
Surrogate: Decachlorobiphenyl	*0.181*		mg/Kg dry	0.207		87.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.208*		mg/Kg dry	0.207		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.180*		mg/Kg dry	0.207		87.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.173*		mg/Kg dry	0.207		83.6	30-150			
Matrix Spike (B186483-MS4)		**Source: 17I0379-01**		Prepared: 09/18/17 Analyzed: 09/24/17						
Aroclor-1016	0.18	0.086	mg/Kg dry	0.215	ND	85.2	40-140			
Aroclor-1016 [2C]	0.19	0.086	mg/Kg dry	0.215	ND	88.2	40-140			
Aroclor-1260	0.17	0.086	mg/Kg dry	0.215	ND	79.0	40-140			
Aroclor-1260 [2C]	0.17	0.086	mg/Kg dry	0.215	ND	78.8	40-140			
Surrogate: Decachlorobiphenyl	*0.162*		mg/Kg dry	0.215		75.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.191*		mg/Kg dry	0.215		88.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.185*		mg/Kg dry	0.215		86.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.179*		mg/Kg dry	0.215		83.3	30-150			
Matrix Spike Dup (B186483-MSD1)		**Source: 17I0379-13**		Prepared: 09/18/17 Analyzed: 09/24/17						
Aroclor-1016	0.22	0.083	mg/Kg dry	0.209	ND	104	40-140	1.83	50	
Aroclor-1016 [2C]	0.22	0.083	mg/Kg dry	0.209	ND	107	40-140	0.519	50	
Aroclor-1260	0.21	0.083	mg/Kg dry	0.209	ND	100	40-140	4.51	50	
Aroclor-1260 [2C]	0.21	0.083	mg/Kg dry	0.209	ND	99.4	40-140	5.51	50	
Surrogate: Decachlorobiphenyl	*0.192*		mg/Kg dry	0.209		92.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.223*		mg/Kg dry	0.209		107	30-150			
Surrogate: Tetrachloro-m-xylene	*0.216*		mg/Kg dry	0.209		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.209*		mg/Kg dry	0.209		100	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186483 - SW-846 3540C										
Matrix Spike Dup (B186483-MSD2)		**Source: 17I0379-07**		Prepared: 09/18/17 Analyzed: 09/24/17						
Aroclor-1016	0.22	0.088	mg/Kg dry	0.219	ND	99.3	40-140	6.52	50	
Aroclor-1016 [2C]	0.24	0.088	mg/Kg dry	0.219	ND	108	40-140	12.4	50	
Aroclor-1260	0.20	0.088	mg/Kg dry	0.219	ND	90.6	40-140	10.5	50	
Aroclor-1260 [2C]	0.20	0.088	mg/Kg dry	0.219	ND	90.2	40-140	10.2	50	
Surrogate: Decachlorobiphenyl	*0.197*		mg/Kg dry	0.219		89.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.232*		mg/Kg dry	0.219		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.226*		mg/Kg dry	0.219		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.215*		mg/Kg dry	0.219		98.0	30-150			
Matrix Spike Dup (B186483-MSD3)		**Source: 17I0379-10**		Prepared: 09/18/17 Analyzed: 09/24/17						
Aroclor-1016	0.21	0.083	mg/Kg dry	0.207	ND	99.4	40-140	7.01	50	
Aroclor-1016 [2C]	0.20	0.083	mg/Kg dry	0.207	ND	98.7	40-140	1.38	50	
Aroclor-1260	0.18	0.083	mg/Kg dry	0.207	ND	85.4	40-140	7.67	50	
Aroclor-1260 [2C]	0.17	0.083	mg/Kg dry	0.207	ND	83.7	40-140	8.46	50	
Surrogate: Decachlorobiphenyl	*0.161*		mg/Kg dry	0.207		77.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.186*		mg/Kg dry	0.207		89.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.197*		mg/Kg dry	0.207		95.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.188*		mg/Kg dry	0.207		91.1	30-150			
Matrix Spike Dup (B186483-MSD4)		**Source: 17I0379-01**		Prepared: 09/18/17 Analyzed: 09/24/17						
Aroclor-1016	0.21	0.086	mg/Kg dry	0.215	ND	98.8	40-140	14.8	50	
Aroclor-1016 [2C]	0.21	0.086	mg/Kg dry	0.215	ND	95.5	40-140	7.98	50	
Aroclor-1260	0.17	0.086	mg/Kg dry	0.215	ND	80.9	40-140	2.36	50	
Aroclor-1260 [2C]	0.18	0.086	mg/Kg dry	0.215	ND	82.2	40-140	4.19	50	
Surrogate: Decachlorobiphenyl	*0.156*		mg/Kg dry	0.215		72.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.186*		mg/Kg dry	0.215		86.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.200*		mg/Kg dry	0.215		93.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.194*		mg/Kg dry	0.215		90.2	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186472 - SW-846 3546										
Blank (B186472-BLK1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.75*		mg/Kg wet	3.33		82.4	50-150			
LCS (B186472-BS1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	24.8	10	mg/Kg wet	33.3		74.5	60-120			
Surrogate: o-Terphenyl	*2.85*		mg/Kg wet	3.33		85.6	50-150			
LCS Dup (B186472-BSD1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	24.2	10	mg/Kg wet	33.3		72.5	60-120	2.67	30	
Surrogate: o-Terphenyl	*2.73*		mg/Kg wet	3.33		81.8	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B186566 - SW-846 3050B											
Blank (B186566-BLK1)				Prepared: 09/19/17	Analyzed: 09/20/17						
Arsenic	ND	2.5	mg/Kg wet								
LCS (B186566-BS1)				Prepared: 09/19/17	Analyzed: 09/20/17						
Arsenic	141	4.8	mg/Kg wet	157		89.8		77.8-122.1			
LCS Dup (B186566-BSD1)				Prepared: 09/19/17	Analyzed: 09/20/17						
Arsenic	154	5.2	mg/Kg wet	157		97.9		77.8-122.1	8.53	30	
Batch B186711 - SW-846 3050B											
Blank (B186711-BLK1)				Prepared: 09/20/17	Analyzed: 09/21/17						
Arsenic	ND	2.5	mg/Kg wet								
LCS (B186711-BS1)				Prepared: 09/20/17	Analyzed: 09/21/17						
Arsenic	138	5.0	mg/Kg wet	157		87.8		77.8-122.1			
LCS Dup (B186711-BSD1)				Prepared: 09/20/17	Analyzed: 09/21/17						
Arsenic	145	5.1	mg/Kg wet	157		92.2		77.8-122.1	4.88	30	
Duplicate (B186711-DUP1)	**Source: 17I0379-07RE1**			Prepared: 09/20/17	Analyzed: 09/21/17						
Arsenic	112	2.7	mg/Kg dry		89.5				22.6	35	
Matrix Spike (B186711-MS1)	**Source: 17I0379-07RE1**			Prepared: 09/20/17	Analyzed: 09/21/17						
Arsenic	131	2.6	mg/Kg dry	26.4	89.5	**156**	*	75-125			MS-12
Matrix Spike (B186711-MS2)	**Source: 17I0379-10RE1**			Prepared: 09/20/17	Analyzed: 09/21/17						
Arsenic	25.6	2.6	mg/Kg dry	25.7	3.63	85.7		75-125			
Matrix Spike Dup (B186711-MSD1)	**Source: 17I0379-07RE1**			Prepared: 09/20/17	Analyzed: 09/21/17						
Arsenic	153	2.6	mg/Kg dry	26.4	89.5	**239**	*	75-125	15.5	35	MS-12
Matrix Spike Dup (B186711-MSD2)	**Source: 17I0379-10RE1**			Prepared: 09/20/17	Analyzed: 09/21/17						
Arsenic	25.7	2.5	mg/Kg dry	25.4	3.63	86.7		75-125	0.120	35	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186437 - % Solids										
Duplicate (B186437-DUP5)		**Source: 17I0379-01**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	93.3		% Wt		92.7			0.645	20	
Duplicate (B186437-DUP6)		**Source: 17I0379-07**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	94.1		% Wt		91.1			3.24	20	
Duplicate (B186437-DUP7)		**Source: 17I0379-10**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	95.8		% Wt		96.4			0.624	20	
Duplicate (B186437-DUP8)		**Source: 17I0379-13**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	95.5		% Wt		95.4			0.105	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-SO-100-3

Lab Sample ID: 17I0379-17

Date(s) Analyzed: 09/23/2017 09/23/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.36	
	2	0.000	-0.030	0.030	0.37	2.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-SO-99-3

Lab Sample ID: 17I0379-20

Date(s) Analyzed: 09/24/2017 09/24/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-12	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
S-12	Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not affected.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

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17I0379

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 3 of 5

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soxhlet	ETPH	PAHs	Arsenic									# of Containers
01	WS-ADC-12W-SO-103-2	9/11/17	0955		X	S	U	X												
02	WS-ADC-12W-SO-103-3	9/11/17	0956		X	S	U	X												
03	WS-ADC-12W-SO-107-1	9/11/17	1011		X	S	U	X	X											
04	WS-ADC-12W-SO-107-2	9/11/17	1012		X	S	U	X		X										
05	WS-ADC-12W-SO-107-3	9/11/17	1013		X	S	U	X			X									
06	WS-ADC-12W-SO-102-1	9/11/17	1004		X	S	U	X	X											
07	WS-ADC-12W-SO-102-2	9/11/17	1005		X	S	U	X			X									
08	WS-ADC-12W-SO-102-3	9/11/17	1006		X	S	U	X												
09	WS-ADC-12W-SO-104-1	9/11/17	1012		X	S	U	X	X											
10	WS-ADC-12W-SO-104-2	9/11/17	1013		X	S	U	X			X									

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.
Please do MS/MSD analysis for WS-ADC-12W-SO-103-2 and WS-ADC-12W-SO-102-2 for PCBs.
PMD MW-ADC-12W-SO-104-2 for PCBs.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/11/17 1445
Received by: (signature)	Date/Time: 9/11/17 1445
Relinquished by: (signature)	Date/Time: 9/11/17 1505
Received by: (signature)	Date/Time: 9/11/17 15:05
Relinquished by: (signature)	Date/Time: 9/11/17 4:30
Received by: (signature) 2.3°C	Date/Time: 9/11/17 1630

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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17I0379

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 4 of 5

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soxhlet	ETPH		# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC-12W-SO-104-3	9/11/17	1014		X	S	U	X					
12	WS-AOC-12W-SO-101-1	9/11/17	1025		X	S	U	X	X				
13	WS-AOC-12W-SO-101-2	9/11/17	1026		X	S	U	X					
14	WS-AOC-12W-SO-101-3	9/11/17	1027		X	S	U	X					
15	WS-AOC-12W-SO-100-1	9/11/17	1032		X	S	U	X	X				
16	WS-AOC-12W-SO-100-2	9/11/17	1033		X	S	U	X					
17	WS-AOC-12W-SO-100-3	9/11/17	1034		X	S	U	X					
18	WS-AOC-12W-SO-99-1	9/11/17	1037		X	S	U	X	X				
19	WS-AOC-12W-SO-99-2	9/11/17	1038		X	S	U	X					
20	WS-AOC-12W-SO-99-3	9/11/17	1039		X	S	U	X					

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.
Please do MS/MSD for WS-AOC-12W-SO-101-2

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/11/17 1445
Received by: (signature)	Date/Time: 9/11/17 1445
Relinquished by: (signature)	Date/Time: 9/11/17 1505
Received by: (signature)	Date/Time: 9/11/17 1505
Relinquished by: (signature)	Date/Time: 9/11/17 430
Received by: (signature)	Date/Time: 9/11/17 1630

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By RLF Date 9/11/17 Time 1130

How were the samples received? In Cooler T No Cooler ___ On Ice T No Ice ___
Direct from Sampling ___ Ambient ___ Melted Ice ___

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 2.3°C
By Blank # ___ Actual Temp - ___

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ___
Are there Rushes? F Who was notified? ___
Are there Short Holds? F Who was notified? ___
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? ~~NA~~ T
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? NA
Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	28
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A091917\A0919136.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0919136.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.30	601503	663876	-9
c - 10	1.64	612478	663876	-8
c - 12	2.37	631911	663876	-5
c - 14	3.04	645030	663876	-3
c - 16	3.65	663263	663876	0
c - 18	4.28	661693	663876	0
o-Terphenyl	4.56	743925	663876	
c - 20	4.89	677130	663876	2
c - 22	5.39	694750	663876	5
c - 24	5.83	656427	663876	-1
c - 26	6.23	699763	663876	5
c - 28	6.59	697743	663876	5
c - 30	6.92	695032	663876	5
c - 32	7.23	676688	663876	2
c - 34	7.53	673957	663876	2
c - 36	7.87	670779	663876	1

* One compound allowed %D <= 50%

Samples

17I0379-06
17I0379-09
17I0379-12
17I0379-15
17I0379-18
17I0380-05@10X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0379

Laboratory Sample ID(s):

17I0379-01 thru 17I0379-20

Sample Date(s):

09/11/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Tod Kopyscinski **Position:** **Laboratory Director**

Printed Name: **Tod E. Kopyscinski** **Date:** **09/25/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 21, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0380

Enclosed are results of analyses for samples received by the laboratory on September 11, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/21/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0380

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-12N-SO-1-1	17I0380-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12N-SO-3-1	17I0380-02	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 8082A	
WS-AOC-12N-SO-3-2	17I0380-03	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12N-SO-4-1	17I0380-04	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC-12W-SO-DUP-60	17I0380-05	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12N-SO-DUP-61	17I0380-06	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 8082A	
EB-71	17I0380-07	Equipment Blank Water		CTDEP ETPH	
				SW-846 6020A-B	
				SW-846 8082A	
				SW-846 8270D	
EB-72	17I0380-08	Equipment Blank Water		CTDEP ETPH	
				SW-846 6020A-B	
				SW-846 8082A	
				SW-846 8270D	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

For method 6020, only As was requested and reported.
For method 6010, only As was requested and reported.

CTDEP ETPH

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl
17I0380-06[WS-AOC-12N-SO-DUP-61]

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-1-1 Sampled: 9/11/2017 12:20

Sample ID: 17I0380-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:17	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:17	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:17	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:17	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:17	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:17	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:17	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:17	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:17	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.2	30-150		9/20/17 12:17
Decachlorobiphenyl [2]	79.6	30-150		9/20/17 12:17
Tetrachloro-m-xylene [1]	77.1	30-150		9/20/17 12:17
Tetrachloro-m-xylene [2]	78.7	30-150		9/20/17 12:17

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-1-1 Sampled: 9/11/2017 12:20

Sample ID: 17I0380-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	67	13	mg/Kg dry	1		CTDEP ETPH	9/18/17	9/20/17 8:47	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	78.8	50-150		9/20/17 8:47

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-1-1 Sampled: 9/11/2017 12:20

Sample ID: 17I0380-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.5		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

con-test® ANALYTICAL LABORATORY

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-3-1 Sampled: 9/11/2017 12:25

Sample ID: 17I0380-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:34	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:34	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:34	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:34	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:34	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:34	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:34	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:34	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:34	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.6	30-150		9/20/17 12:34
Decachlorobiphenyl [2]	83.0	30-150		9/20/17 12:34
Tetrachloro-m-xylene [1]	90.9	30-150		9/20/17 12:34
Tetrachloro-m-xylene [2]	95.3	30-150		9/20/17 12:34

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-3-1 Sampled: 9/11/2017 12:25

Sample ID: 17I0380-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	390	130	mg/Kg dry	10		CTDEP ETPH	9/18/17	9/20/17 20:42	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	87.4	50-150		9/20/17 20:42

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-3-1 Sampled: 9/11/2017 12:25

Sample ID: 17I0380-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	14	3.3	mg/Kg dry	1		SW-846 6010C-D	9/18/17	9/19/17 14:15	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-3-1 Sampled: 9/11/2017 12:25

Sample ID: 17I0380-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.7		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-3-2 Sampled: 9/11/2017 12:30

Sample ID: 17I0380-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:52	KAL
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:52	KAL
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:52	KAL
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:52	KAL
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:52	KAL
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:52	KAL
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:52	KAL
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:52	KAL
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 12:52	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.1	30-150		9/20/17 12:52
Decachlorobiphenyl [2]	82.1	30-150		9/20/17 12:52
Tetrachloro-m-xylene [1]	88.7	30-150		9/20/17 12:52
Tetrachloro-m-xylene [2]	91.2	30-150		9/20/17 12:52

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-3-2 Sampled: 9/11/2017 12:30

Sample ID: 17I0380-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	88	12	mg/Kg dry	1		CTDEP ETPH	9/18/17	9/20/17 9:23	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	77.4	50-150		9/20/17 9:23

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-3-2 Sampled: 9/11/2017 12:30

Sample ID: 17I0380-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-4-1 Sampled: 9/11/2017 12:35

Sample ID: 17I0380-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Anthracene	0.35	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Benzo(a)anthracene	1.5	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Benzo(a)pyrene	1.1	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Benzo(b)fluoranthene	1.5	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Benzo(g,h,i)perylene	0.62	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Benzo(k)fluoranthene	0.59	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Chrysene	1.6	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Fluoranthene	3.0	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Indeno(1,2,3-cd)pyrene	0.71	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Phenanthrene	2.5	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL
Pyrene	2.5	0.21	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 17:04	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	56.1	30-130		9/18/17 17:04
2-Fluorobiphenyl	72.0	30-130		9/18/17 17:04
p-Terphenyl-d14	78.6	30-130		9/18/17 17:04

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-4-1 Sampled: 9/11/2017 12:35

Sample ID: 17I0380-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 13:09	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 13:09	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 13:09	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 13:09	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 13:09	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 13:09	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 13:09	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 13:09	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/18/17	9/20/17 13:09	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.2	30-150		9/20/17 13:09
Decachlorobiphenyl [2]	83.3	30-150		9/20/17 13:09
Tetrachloro-m-xylene [1]	87.4	30-150		9/20/17 13:09
Tetrachloro-m-xylene [2]	89.3	30-150		9/20/17 13:09

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-4-1 Sampled: 9/11/2017 12:35

Sample ID: 17I0380-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	240	62	mg/Kg dry	5		CTDEP ETPH	9/18/17	9/20/17 20:06	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	72.8	50-150		9/20/17 20:06

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-4-1 Sampled: 9/11/2017 12:35

Sample ID: 17I0380-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.9		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-DUP-60 Sampled: 9/11/2017 00:00

Sample ID: 17I0380-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:01	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:01	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:01	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:01	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:01	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:01	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:01	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:01	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:01	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.1	30-150		9/21/17 1:01
Decachlorobiphenyl [2]	69.5	30-150		9/21/17 1:01
Tetrachloro-m-xylene [1]	76.0	30-150		9/21/17 1:01
Tetrachloro-m-xylene [2]	82.5	30-150		9/21/17 1:01

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-DUP-60 Sampled: 9/11/2017 00:00

Sample ID: 17I0380-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1200	140	mg/Kg dry	10		CTDEP ETPH	9/18/17	9/20/17 9:59	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	98.0	50-150		9/20/17 9:59

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-DUP-60 Sampled: 9/11/2017 00:00

Sample ID: 17I0380-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.8		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-DUP-61 Sampled: 9/11/2017 00:00

Sample ID: 17I0380-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:19	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:19	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:19	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:19	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:19	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:19	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:19	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:19	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 1:19	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.8	30-150		9/21/17 1:19
Decachlorobiphenyl [2]	74.9	30-150		9/21/17 1:19
Tetrachloro-m-xylene [1]	91.5	30-150		9/21/17 1:19
Tetrachloro-m-xylene [2]	94.7	30-150		9/21/17 1:19

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-DUP-61 Sampled: 9/11/2017 00:00

Sample ID: 17I0380-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	710	270	mg/Kg dry	20		CTDEP ETPH	9/18/17	9/20/17 20:24	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/20/17 20:24

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-DUP-61 Sampled: 9/11/2017 00:00

Sample ID: 17I0380-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	22	3.2	mg/Kg dry	1		SW-846 6010C-D	9/18/17	9/19/17 14:19	QNW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: WS-AOC-12N-SO-DUP-61 Sampled: 9/11/2017 00:00

Sample ID: 17I0380-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	73.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: EB-71 Sampled: 9/11/2017 00:00

Sample ID: 17I0380-07

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/15/17	9/19/17 5:47	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	86.6	30-130		9/19/17 5:47
2-Fluorobiphenyl	84.6	30-130		9/19/17 5:47
p-Terphenyl-d14	79.5	30-130		9/19/17 5:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: EB-71 Sampled: 9/11/2017 00:00

Sample ID: 17I0380-07

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:07	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:07	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:07	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:07	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:07	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:07	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:07	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:07	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:07	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.8	30-150		9/20/17 11:07
Decachlorobiphenyl [2]	98.5	30-150		9/20/17 11:07
Tetrachloro-m-xylene [1]	86.7	30-150		9/20/17 11:07
Tetrachloro-m-xylene [2]	87.4	30-150		9/20/17 11:07

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: EB-71 Sampled: 9/11/2017 00:00

Sample ID: 17I0380-07

Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	9/18/17	9/19/17 17:42	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	92.8	50-150		9/19/17 17:42

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: EB-71 Sampled: 9/11/2017 00:00

Sample ID: 17I0380-07

Sample Matrix: Equipment Blank Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	9/13/17	9/14/17 15:57	WSD

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: EB-72 Sampled: 9/11/2017 00:00

Sample ID: 17I0380-08

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/15/17	9/19/17 6:15	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	86.4	30-130		9/19/17 6:15
2-Fluorobiphenyl	82.4	30-130		9/19/17 6:15
p-Terphenyl-d14	77.8	30-130		9/19/17 6:15

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: EB-72 Sampled: 9/11/2017 00:00

Sample ID: 17I0380-08

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:19	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:19	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:19	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:19	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:19	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:19	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:19	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:19	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/14/17	9/20/17 11:19	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.4	30-150		9/20/17 11:19
Decachlorobiphenyl [2]	98.8	30-150		9/20/17 11:19
Tetrachloro-m-xylene [1]	87.4	30-150		9/20/17 11:19
Tetrachloro-m-xylene [2]	87.9	30-150		9/20/17 11:19

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: EB-72 Sampled: 9/11/2017 00:00

Sample ID: 17I0380-08

Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	9/18/17	9/19/17 18:02	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	102	50-150		9/19/17 18:02

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0380

Date Received: 9/11/2017

Field Sample #: EB-72 Sampled: 9/11/2017 00:00

Sample ID: 17I0380-08

Sample Matrix: Equipment Blank Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	9/13/17	9/14/17 16:00	WSD

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0380-01 [WS-AOC-12N-SO-1-1]	B186472	30.2	1.00	09/18/17
17I0380-02 [WS-AOC-12N-SO-3-1]	B186472	30.0	1.00	09/18/17
17I0380-03 [WS-AOC-12N-SO-3-2]	B186472	30.1	1.00	09/18/17
17I0380-04 [WS-AOC-12N-SO-4-1]	B186472	30.2	1.00	09/18/17
17I0380-05 [WS-AOC-12W-SO-DUP-60]	B186472	30.0	1.00	09/18/17
17I0380-06 [WS-AOC-12N-SO-DUP-61]	B186472	30.0	1.00	09/18/17

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0380-07 [EB-71]	B186422	1000	1.00	09/18/17
17I0380-08 [EB-72]	B186422	1000	1.00	09/18/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0380-01 [WS-AOC-12N-SO-1-1]	B186437	09/18/17
17I0380-02 [WS-AOC-12N-SO-3-1]	B186437	09/18/17
17I0380-03 [WS-AOC-12N-SO-3-2]	B186437	09/18/17
17I0380-04 [WS-AOC-12N-SO-4-1]	B186437	09/18/17
17I0380-05 [WS-AOC-12W-SO-DUP-60]	B186437	09/18/17
17I0380-06 [WS-AOC-12N-SO-DUP-61]	B186437	09/18/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0380-02 [WS-AOC-12N-SO-3-1]	B186450	1.01	50.0	09/18/17
17I0380-06 [WS-AOC-12N-SO-DUP-61]	B186450	1.08	50.0	09/18/17

Prep Method: SW-846 3005A-SW-846 6020A-B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0380-07 [EB-71]	B186151	50.0	50.0	09/13/17
17I0380-08 [EB-72]	B186151	50.0	50.0	09/13/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0380-05 [WS-AOC-12W-SO-DUP-60]	B186353	10.6	10.0	09/15/17
17I0380-06 [WS-AOC-12N-SO-DUP-61]	B186353	10.6	10.0	09/15/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0380-01 [WS-AOC-12N-SO-1-1]	B186490	10.0	10.0	09/18/17
17I0380-02 [WS-AOC-12N-SO-3-1]	B186490	10.0	10.0	09/18/17
17I0380-03 [WS-AOC-12N-SO-3-2]	B186490	10.0	10.0	09/18/17

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0380-04 [WS-AOC-12N-SO-4-1]	B186490	10.0	10.0	09/18/17

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0380-07 [EB-71]	B186214	1000	10.0	09/14/17
17I0380-08 [EB-72]	B186214	1000	10.0	09/14/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0380-04 [WS-AOC-12N-SO-4-1]	B186330	30.0	1.00	09/15/17

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0380-07 [EB-71]	B186454	1000	1.00	09/15/17
17I0380-08 [EB-72]	B186454	1000	1.00	09/15/17

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186330 - SW-846 3546										
Blank (B186330-BLK1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.21*		mg/Kg wet	3.33		66.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.58*		mg/Kg wet	3.33		77.3	30-130			
Surrogate: p-Terphenyl-d14	*3.26*		mg/Kg wet	3.33		97.9	30-130			
LCS (B186330-BS1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	0.884	0.17	mg/Kg wet	1.67		53.1	40-140			
Acenaphthylene	0.912	0.17	mg/Kg wet	1.67		54.7	40-140			
Anthracene	0.978	0.17	mg/Kg wet	1.67		58.7	40-140			
Benzo(a)anthracene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Benzo(a)pyrene	0.993	0.17	mg/Kg wet	1.67		59.6	40-140			
Benzo(b)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Benzo(g,h,i)perylene	1.03	0.17	mg/Kg wet	1.67		62.1	40-140			
Benzo(k)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Chrysene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Dibenz(a,h)anthracene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140			
Fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Fluorene	0.994	0.17	mg/Kg wet	1.67		59.7	40-140			
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140			
2-Methylnaphthalene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
Naphthalene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140			
Phenanthrene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140			
Pyrene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140			
Surrogate: Nitrobenzene-d5	*2.22*		mg/Kg wet	3.33		66.7	30-130			
Surrogate: 2-Fluorobiphenyl	*2.43*		mg/Kg wet	3.33		73.0	30-130			
Surrogate: p-Terphenyl-d14	*2.58*		mg/Kg wet	3.33		77.3	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186330 - SW-846 3546										
LCS Dup (B186330-BSD1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	8.72	30	
Acenaphthylene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140	8.17	30	
Anthracene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140	6.98	30	
Benzo(a)anthracene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	10.1	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	9.44	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	5.30	30	
Benzo(g,h,i)perylene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	7.53	30	
Benzo(k)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.4	40-140	6.28	30	
Chrysene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	9.46	30	
Dibenz(a,h)anthracene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140	7.48	30	
Fluoranthene	1.10	0.17	mg/Kg wet	1.67		65.7	40-140	6.70	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	6.74	30	
Indeno(1,2,3-cd)pyrene	1.16	0.17	mg/Kg wet	1.67		69.4	40-140	10.7	30	
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.5	40-140	3.68	30	
Naphthalene	1.02	0.17	mg/Kg wet	1.67		61.0	40-140	1.04	30	
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	5.63	30	
Pyrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	7.85	30	
Surrogate: Nitrobenzene-d5	*2.21*		mg/Kg wet	3.33		66.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.53*		mg/Kg wet	3.33		75.8	30-130			
Surrogate: p-Terphenyl-d14	*3.76*		mg/Kg wet	3.33		113	30-130			
Batch B186454 - SW-846 3510C										
Blank (B186454-BLK1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.30	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L							
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*66.0*		µg/L	100		66.0	30-130			
Surrogate: 2-Fluorobiphenyl	*67.5*		µg/L	100		67.5	30-130			
Surrogate: p-Terphenyl-d14	*65.4*		µg/L	100		65.4	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186454 - SW-846 3510C										
LCS (B186454-BS1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene (SIM)	84.9	7.5	µg/L	100		84.9	40-140			
Acenaphthylene (SIM)	82.7	7.5	µg/L	100		82.7	40-140			
Anthracene (SIM)	88.5	5.0	µg/L	100		88.5	40-140			
Benzo(a)anthracene (SIM)	89.4	1.2	µg/L	100		89.4	40-140			
Benzo(a)pyrene (SIM)	94.0	2.5	µg/L	100		94.0	40-140			
Benzo(b)fluoranthene (SIM)	93.5	1.2	µg/L	100		93.5	40-140			
Benzo(g,h,i)perylene (SIM)	90.6	12	µg/L	100		90.6	40-140			
Benzo(k)fluoranthene (SIM)	90.4	5.0	µg/L	100		90.4	40-140			
Chrysene (SIM)	89.0	5.0	µg/L	100		89.0	40-140			
Dibenz(a,h)anthracene (SIM)	92.3	5.0	µg/L	100		92.3	40-140			
Fluoranthene (SIM)	85.6	12	µg/L	100		85.6	40-140			
Fluorene (SIM)	85.5	25	µg/L	100		85.5	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	93.1	5.0	µg/L	100		93.1	40-140			
2-Methylnaphthalene (SIM)	79.3	25	µg/L	100		79.3	40-140			
Naphthalene (SIM)	76.2	25	µg/L	100		76.2	40-140			
Phenanthrene (SIM)	86.1	1.2	µg/L	100		86.1	40-140			
Pyrene (SIM)	88.2	25	µg/L	100		88.2	40-140			
Surrogate: Nitrobenzene-d5	*87.8*		µg/L	100		87.8	30-130			
Surrogate: 2-Fluorobiphenyl	*87.9*		µg/L	100		87.9	30-130			
Surrogate: p-Terphenyl-d14	*69.9*		µg/L	100		69.9	30-130			
LCS Dup (B186454-BSD1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene (SIM)	89.3	7.5	µg/L	100		89.3	40-140	5.05	20	
Acenaphthylene (SIM)	87.3	7.5	µg/L	100		87.3	40-140	5.41	20	
Anthracene (SIM)	93.2	5.0	µg/L	100		93.2	40-140	5.17	20	
Benzo(a)anthracene (SIM)	92.9	1.2	µg/L	100		92.9	40-140	3.90	20	
Benzo(a)pyrene (SIM)	98.1	2.5	µg/L	100		98.1	40-140	4.29	20	
Benzo(b)fluoranthene (SIM)	96.4	1.2	µg/L	100		96.4	40-140	3.03	20	
Benzo(g,h,i)perylene (SIM)	95.0	12	µg/L	100		95.0	40-140	4.82	20	
Benzo(k)fluoranthene (SIM)	94.1	5.0	µg/L	100		94.1	40-140	4.04	20	
Chrysene (SIM)	92.6	5.0	µg/L	100		92.6	40-140	3.99	20	
Dibenz(a,h)anthracene (SIM)	96.4	5.0	µg/L	100		96.4	40-140	4.35	20	
Fluoranthene (SIM)	91.0	12	µg/L	100		91.0	40-140	6.03	20	
Fluorene (SIM)	91.3	25	µg/L	100		91.3	40-140	6.59	20	
Indeno(1,2,3-cd)pyrene (SIM)	97.2	5.0	µg/L	100		97.2	40-140	4.39	20	‡
2-Methylnaphthalene (SIM)	83.4	25	µg/L	100		83.4	40-140	5.10	20	
Naphthalene (SIM)	80.9	25	µg/L	100		80.9	40-140	5.98	20	
Phenanthrene (SIM)	89.6	1.2	µg/L	100		89.6	40-140	4.01	20	
Pyrene (SIM)	91.2	25	µg/L	100		91.2	40-140	3.40	20	
Surrogate: Nitrobenzene-d5	*92.5*		µg/L	100		92.5	30-130			
Surrogate: 2-Fluorobiphenyl	*90.0*		µg/L	100		90.0	30-130			
Surrogate: p-Terphenyl-d14	*73.2*		µg/L	100		73.2	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186214 - SW-846 3510C										
Blank (B186214-BLK1)				Prepared: 09/14/17 Analyzed: 09/16/17						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.87*		µg/L	2.00		93.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.04*		µg/L	2.00		102	30-150			
Surrogate: Tetrachloro-m-xylene	*1.91*		µg/L	2.00		95.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.92*		µg/L	2.00		96.2	30-150			
LCS (B186214-BS1)				Prepared: 09/14/17 Analyzed: 09/16/17						
Aroclor-1016	0.53	0.20	µg/L	0.500		107	40-140			
Aroclor-1016 [2C]	0.56	0.20	µg/L	0.500		113	40-140			
Aroclor-1260	0.47	0.20	µg/L	0.500		94.0	40-140			
Aroclor-1260 [2C]	0.46	0.20	µg/L	0.500		91.4	40-140			
Surrogate: Decachlorobiphenyl	*1.88*		µg/L	2.00		94.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.05*		µg/L	2.00		103	30-150			
Surrogate: Tetrachloro-m-xylene	*1.93*		µg/L	2.00		96.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.93*		µg/L	2.00		96.3	30-150			
LCS Dup (B186214-BSD1)				Prepared: 09/14/17 Analyzed: 09/16/17						
Aroclor-1016	0.54	0.20	µg/L	0.500		107	40-140	0.398	20	
Aroclor-1016 [2C]	0.56	0.20	µg/L	0.500		111	40-140	1.33	20	
Aroclor-1260	0.50	0.20	µg/L	0.500		99.3	40-140	5.48	20	
Aroclor-1260 [2C]	0.48	0.20	µg/L	0.500		96.5	40-140	5.45	20	
Surrogate: Decachlorobiphenyl	*1.97*		µg/L	2.00		98.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.19*		µg/L	2.00		109	30-150			
Surrogate: Tetrachloro-m-xylene	*2.00*		µg/L	2.00		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.02*		µg/L	2.00		101	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186353 - SW-846 3540C										
Blank (B186353-BLK1)				Prepared: 09/15/17 Analyzed: 09/19/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.172*		mg/Kg wet	0.200		86.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.204*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg wet	0.200		88.4	30-150			
LCS (B186353-BS1)				Prepared: 09/15/17 Analyzed: 09/19/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		86.2	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		91.9	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.5	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.3	40-140			
Surrogate: Decachlorobiphenyl	*0.171*		mg/Kg wet	0.200		85.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.202*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.178*		mg/Kg wet	0.200		89.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg wet	0.200		88.7	30-150			
LCS Dup (B186353-BSD1)				Prepared: 09/15/17 Analyzed: 09/19/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		83.2	40-140	3.54	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.7	40-140	3.50	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		80.2	40-140	0.900	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		79.6	40-140	0.953	30	
Surrogate: Decachlorobiphenyl	*0.165*		mg/Kg wet	0.200		82.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg wet	0.200		98.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		86.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.170*		mg/Kg wet	0.200		84.9	30-150			

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186353 - SW-846 3540C										
Matrix Spike (B186353-MS1)		**Source: 17I0380-06**		Prepared: 09/15/17 Analyzed: 09/20/17						
Aroclor-1016	0.22	0.10	mg/Kg dry	0.262	ND	82.6	40-140			
Aroclor-1016 [2C]	0.22	0.10	mg/Kg dry	0.262	ND	84.2	40-140			
Aroclor-1260	0.16	0.10	mg/Kg dry	0.262	ND	61.3	40-140			
Aroclor-1260 [2C]	0.16	0.10	mg/Kg dry	0.262	ND	62.3	40-140			
Surrogate: Decachlorobiphenyl	*0.184*		mg/Kg dry	0.262		70.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.185*		mg/Kg dry	0.262		70.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.218*		mg/Kg dry	0.262		83.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.228*		mg/Kg dry	0.262		86.9	30-150			
Matrix Spike Dup (B186353-MSD1)		**Source: 17I0380-06**		Prepared: 09/15/17 Analyzed: 09/20/17						
Aroclor-1016	0.24	0.10	mg/Kg dry	0.260	ND	93.5	40-140	11.3	50	
Aroclor-1016 [2C]	0.23	0.10	mg/Kg dry	0.260	ND	88.0	40-140	3.42	50	
Aroclor-1260	0.17	0.10	mg/Kg dry	0.260	ND	66.0	40-140	6.48	50	
Aroclor-1260 [2C]	0.17	0.10	mg/Kg dry	0.260	ND	66.3	40-140	5.33	50	
Surrogate: Decachlorobiphenyl	*0.196*		mg/Kg dry	0.260		75.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg dry	0.260		75.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.233*		mg/Kg dry	0.260		89.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.248*		mg/Kg dry	0.260		95.7	30-150			
Batch B186490 - SW-846 3540C										
Blank (B186490-BLK1)				Prepared: 09/18/17 Analyzed: 09/20/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.177*		mg/Kg wet	0.200		88.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.163*		mg/Kg wet	0.200		81.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.176*		mg/Kg wet	0.200		88.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.184*		mg/Kg wet	0.200		92.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186490 - SW-846 3540C										
LCS (B186490-BS1)				Prepared: 09/18/17 Analyzed: 09/20/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.5	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		96.8	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		85.7	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.8	40-140			
Surrogate: Decachlorobiphenyl	*0.190*		mg/Kg wet	0.200		94.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.177*		mg/Kg wet	0.200		88.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.187*		mg/Kg wet	0.200		93.3	30-150			
LCS Dup (B186490-BSD1)				Prepared: 09/18/17 Analyzed: 09/20/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.0	40-140	6.26	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.7	40-140	7.62	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.8	40-140	7.10	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		75.8	40-140	7.66	30	
Surrogate: Decachlorobiphenyl	*0.177*		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.164*		mg/Kg wet	0.200		81.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.166*		mg/Kg wet	0.200		83.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.174*		mg/Kg wet	0.200		86.8	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186422 - SW-846 3510C										
Blank (B186422-BLK1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	*0.100*		mg/L	0.100		100	50-150			
LCS (B186422-BS1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	0.863	0.075	mg/L	1.00		86.3	60-120			
Surrogate: o-Terphenyl	*0.109*		mg/L	0.100		109	50-150			
LCS Dup (B186422-BSD1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	0.823	0.075	mg/L	1.00		82.3	60-120	4.72	30	
Surrogate: o-Terphenyl	*0.102*		mg/L	0.100		102	50-150			
Batch B186472 - SW-846 3546										
Blank (B186472-BLK1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.75*		mg/Kg wet	3.33		82.4	50-150			
LCS (B186472-BS1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	24.8	10	mg/Kg wet	33.3		74.5	60-120			
Surrogate: o-Terphenyl	*2.85*		mg/Kg wet	3.33		85.6	50-150			
LCS Dup (B186472-BSD1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	24.2	10	mg/Kg wet	33.3		72.5	60-120	2.67	30	
Surrogate: o-Terphenyl	*2.73*		mg/Kg wet	3.33		81.8	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186151 - SW-846 3005A										
Blank (B186151-BLK1)				Prepared: 09/13/17 Analyzed: 09/14/17						
Arsenic	ND	2.0	µg/L							
LCS (B186151-BS1)				Prepared: 09/13/17 Analyzed: 09/14/17						
Arsenic	522	4.0	µg/L	500		104	80-120			
LCS Dup (B186151-BSD1)				Prepared: 09/13/17 Analyzed: 09/14/17						
Arsenic	515	4.0	µg/L	500		103	80-120	1.31	20	
Batch B186450 - SW-846 3050B										
Blank (B186450-BLK1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B186450-BS1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	143	5.0	mg/Kg wet	157		90.9	77.8-122.1			
LCS Dup (B186450-BSD1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	146	4.8	mg/Kg wet	157		93.1	77.8-122.1	2.31	30	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 6020A-B in Water	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

con-test ANALYTICAL LABORATORY
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17I0380

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soxhlet	PAHs	ETPH	Arsenic							# of Containers
01	WS-AOC-12N-SO-1-1	9/11/17	1220		X	S	U	X		X								
02	WS-AOC-12N-SO-3-1	9/11/17	1225		X	S	U	X		X	X							
03	WS-AOC-12N-SO-3-2	9/11/17	1230		X	S	U	X		X								
04	WS-AOC-12N-SO4-1	9/11/17	1235		X	S	U	X	X	X								
05	WS-AOC-12N-SO-DUP-60	9/11/17	—		X	S	U	X		X								
06	WS-AOC-12N-SO-DUP-61	9/11/17	—		X	S	U	X		X	X							
07	EB-71				X	O	U	X	X	X	X							
08	EB-72				X	O	U	X	X	X	X							

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) DI.

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)	Date/Time: 9/11/17 1445
Received by: (signature)	Date/Time: 9/11/17 1445
Relinquished by: (signature)	Date/Time: 9/11/17 1505
Received by: (signature)	Date/Time: 9/11/17 15:05
Relinquished by: (signature)	Date/Time: 9/11/17 430
Received by: (signature) 23.5°C	Date/Time: 9/11/17 1030

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Table of Contents

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
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con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By RLF Date 9/11/17 Time 1130

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 23.5.9°C
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ____
Are there Rushes? F Who was notified? ____
Are there Short Holds? F Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? NA
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? NA
Do all samples have the proper pH? Acid T Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	12	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	8
Meoh-		250 mL Amb.		250 mL Plastic	2	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A091917\A0919034.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919034.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	474085	516534	-8
c - 10	1.64	481672	516534	-7
c - 12	2.37	497126	516534	-4
c - 14	3.04	508834	516534	-1
c - 16	3.65	522848	516534	1
c - 18	4.29	520984	516534	1
o-Terphenyl	4.57	580972	516534	
c - 20	4.89	530541	516534	3
c - 22	5.39	541966	516534	5
c - 24	5.83	509014	516534	-1
c - 26	6.23	539302	516534	4
c - 28	6.59	535419	516534	4
c - 30	6.92	532726	516534	3
c - 32	7.23	517877	516534	0
c - 34	7.53	518142	516534	0
c - 36	7.87	517468	516534	0

* One compound allowed %D <= 50%

Samples
17I0380-07
17I0380-08
17I0408-01
17I0408-02
17I0408-03
17I0408-04
17I0408-05
17I0408-06
17I0408-07
17I0408-08
17I0539-06
17I0539-07

D:\HPCHEM\1\DATA\A091917\A0919080.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919080.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	528856	581017	-9
c - 10	1.64	535746	581017	-8
c - 12	2.37	551280	581017	-5
c - 14	3.04	564056	581017	-3
c - 16	3.65	580870	581017	0
c - 18	4.28	579922	581017	0
o-Terphenyl	4.56	651948	581017	
c - 20	4.89	593238	581017	2
c - 22	5.39	609366	581017	5
c - 24	5.83	575514	581017	-1
c - 26	6.23	613107	581017	6
c - 28	6.59	611459	581017	5
c - 30	6.92	608124	581017	5
c - 32	7.23	590941	581017	2
c - 34	7.53	588042	581017	1
c - 36	7.87	584730	581017	1

* One compound allowed %D <= 50%

Samples
17I0719-04
17I0719-07
17I0719-04
17I0719-08@20X
17I0719-09@10X
17I0241-16@5X
17I0244-11@10X
17I0317-01@5X
17I0317-08@5X
17I0317-12@5X
17I0317-16@5X
17I0317-20@5X

D:\HPCHEM\1\DATA\A091917\A0919136.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0919136.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.30	601503	663876	-9
c - 10	1.64	612478	663876	-8
c - 12	2.37	631911	663876	-5
c - 14	3.04	645030	663876	-3
c - 16	3.65	663263	663876	0
c - 18	4.28	661693	663876	0
o-Terphenyl	4.56	743925	663876	
c - 20	4.89	677130	663876	2
c - 22	5.39	694750	663876	5
c - 24	5.83	656427	663876	-1
c - 26	6.23	699763	663876	5
c - 28	6.59	697743	663876	5
c - 30	6.92	695032	663876	5
c - 32	7.23	676688	663876	2
c - 34	7.53	673957	663876	2
c - 36	7.87	670779	663876	1

* One compound allowed %D <= 50%

Samples

17I0379-06
17I0379-09
17I0379-12
17I0379-15
17I0379-18
17I0380-05@10X

D:\HPCHEM\1\DATA\A091917.SEC\A0919137.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0919137.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	620853	652710	-5
c - 10	1.63	631926	652710	-3
c - 12	2.34	650993	652710	0
c - 14	3.01	660660	652710	1
c - 16	3.61	672375	652710	3
c - 18	4.22	661082	652710	1
o-Terphenyl	4.51	734754	652710	
c - 20	4.83	666433	652710	2
c - 22	5.33	671692	652710	3
c - 24	5.77	624925	652710	-4
c - 26	6.16	658424	652710	1
c - 28	6.52	654250	652710	0
c - 30	6.85	655163	652710	0
c - 32	7.16	647569	652710	-1
c - 34	7.45	655759	652710	0
c - 36	7.76	658546	652710	1

* One compound allowed %D <= 50%

Samples

17I0378-20
17I0380-01
17I0380-03
17I0241-04@20X

D:\HPCHEM\1\DATA\A092017.SEC\A0920031.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0920031.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	541173	562711	-4
c - 10	1.62	549935	562711	-2
c - 12	2.34	566528	562711	1
c - 14	3.01	574189	562711	2
c - 16	3.61	582627	562711	4
c - 18	4.22	570510	562711	1
o-Terphenyl	4.51	631761	562711	
c - 20	4.83	572845	562711	2
c - 22	5.33	578821	562711	3
c - 24	5.77	538783	562711	-4
c - 26	6.16	569323	562711	1
c - 28	6.52	564215	562711	0
c - 30	6.85	562306	562711	0
c - 32	7.16	552003	562711	-2
c - 34	7.45	557640	562711	-1
c - 36	7.76	559760	562711	-1

* One compound allowed %D </= 50%

Samples

17I0719-02@5X
17I0719-03@50X
17I0719-05@100X
17I0719-06@100X
17I0719-14@100X
17I0719-01@100X
17I0378-19@5X
17I0379-03@50X
17I0378-01@50X
17I0380-04@5X
17I0380-06@20X
17I0380-02@10X
17I0517-13

D:\HPCHEM\1\DATA\A092017.SEC\A0920079.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0920079.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	593179	621951	-5
c - 10	1.62	601870	621951	-3
c - 12	2.34	620530	621951	0
c - 14	3.01	631091	621951	1
c - 16	3.61	641967	621951	3
c - 18	4.22	630375	621951	1
o-Terphenyl	4.51	697469	621951	
c - 20	4.83	634151	621951	2
c - 22	5.33	640559	621951	3
c - 24	5.77	596341	621951	-4
c - 26	6.16	629258	621951	1
c - 28	6.52	625172	621951	1
c - 30	6.85	625957	621951	1
c - 32	7.16	616353	621951	-1
c - 34	7.45	620644	621951	0
c - 36	7.76	621823	621951	0

* One compound allowed %D <= 50%

Samples

17I0517-04
17I0517-09
17I0517-12
17I0462-04
17I0462-17
17I0462-20
17I0463-12
17I0241-10RE1@5X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0380

Laboratory Sample ID(s):

17I0380-01 thru 17I0380-08

Sample Date(s):

09/11/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 6020A-B, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/21/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 28, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0465

Enclosed are results of analyses for samples received by the laboratory on September 12, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/28/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0465

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC15-AS-21	17I0465-01	Product/Solid		SW-846 8082A	
WS-AOC15-AS-22	17I0465-02	Product/Solid		SW-846 8082A	
WS-AOC15-AS-23	17I0465-03	Product/Solid		SW-846 8082A	
WS-AOC15-AS-24	17I0465-04	Product/Solid		SW-846 8082A	
WS-AOC15-AS-25	17I0465-05	Product/Solid		SW-846 8082A	
WS-AOC15-AS-26	17I0465-06	Product/Solid		SW-846 8082A	
WS-AOC15-AS-27	17I0465-07	Product/Solid		SW-846 8082A	
WS-AOC15-AS-28	17I0465-08	Product/Solid		SW-846 8082A	
WS-AOC15-AS-30	17I0465-09	Product/Solid		SW-846 8082A	
WS-AOC15-AS-31	17I0465-10	Product/Solid		SW-846 8082A	
WS-AOC15-AS-32	17I0465-11	Product/Solid		SW-846 8082A	
WS-AOC15-AS-33	17I0465-12	Product/Solid		SW-846 8082A	
WS-AOC15-AS-34	17I0465-13	Product/Solid		SW-846 8082A	
WS-AOC15-AS-35	17I0465-14	Product/Solid		SW-846 8082A	
WS-AOC15-AS-36	17I0465-15	Product/Solid		SW-846 8082A	
WS-AOC15-AS-37	17I0465-16	Product/Solid		SW-846 8082A	
WS-AOC12N-AS-1	17I0465-17	Product/Solid		SW-846 8082A	
WS-AOC12N-AS-2	17I0465-18	Product/Solid		SW-846 8082A	
WS-AOC12N-AS-3	17I0465-19	Product/Solid		SW-846 8082A	
WS-AOC12N-AS-4	17I0465-20	Product/Solid		SW-846 8082A	
WS-AOC15-AS-Dup20	17I0465-21	Product/Solid		SW-846 8082A	
WS-AOC12N-AS-Dup21	17I0465-22	Product/Solid		SW-846 8082A	
WS-AOC15-SE-29	17I0465-23	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 6010C-D

Qualifications:

B

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:

Nickel
17I0465-23[WS-AOC15-SE-29], B186613-BS1, B186613-BSD1

Zinc
17I0465-23[WS-AOC15-SE-29], B186613-BS1, B186613-BSD1

B-07

Data is not affected by elevated level in blank since sample result is >10x level found in the blank.

Analyte & Samples(s) Qualified:

Nickel
17I0465-23[WS-AOC15-SE-29], B186613-BLK1

Zinc
17I0465-23[WS-AOC15-SE-29], B186613-BLK1

SW-846 8082A

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

17I0465-02RE1[WS-AOC15-AS-22], 17I0465-21[WS-AOC15-AS-Dup20], 17I0465-22[WS-AOC12N-AS-Dup21]

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Aroclor-1260 [2C]
B186606-MS1, B186606-MSD1

SW-846 8270D

Qualifications:

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

4-Chloroaniline
17I0465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

17I0465-23[WS-AOC15-SE-29]

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.

Analyte & Samples(s) Qualified:

4,6-Dinitro-2-methylphenol
17I0465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Pentachloronitrobenzene
17I0465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

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V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

17I0465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

4,6-Dinitro-2-methylphenol

17I0465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

17I0465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

4,6-Dinitro-2-methylphenol

17I0465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

SW-846 8270D

The LCS sample recoveries for required RCP 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for “difficult analytes” listed below and/or otherwise listed in this narrative: Difficult analytes for soil - limits between 10 and 180% depending on the compound (see QC summary for limits): 3,3’-Dichlorobenzidine, Pyridine, Aniline, 4-Chloroaniline, 3-Nitroaniline, and n-Nitrosodiphenylamine.

All reporting limits specified on the chain-of-custody were met, except for Pyridine, 1,2,4,5-Tetrachlorobenzene and Pentachloronitrobenzene for the most protective criteria since the laboratory cannot achieve the required RCP calibration criteria at these levels unless otherwise listed in this narrative.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-21 Sampled: 9/12/2017 10:09

Sample ID: 17I0465-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.1	30-150		9/27/17 16:53
Decachlorobiphenyl [2]	93.6	30-150		9/27/17 16:53
Tetrachloro-m-xylene [1]	87.8	30-150		9/27/17 16:53
Tetrachloro-m-xylene [2]	91.6	30-150		9/27/17 16:53

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-22 Sampled: 9/12/2017 09:45

Sample ID: 17I0465-02

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1221 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1232 [2]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1242 [2]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1248 [2]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1254 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1260 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1262 [2]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1268 [2]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.4	30-150		9/23/17 4:23
Decachlorobiphenyl [2]	77.6	30-150		9/23/17 4:23
Tetrachloro-m-xylene [1]	96.9	30-150		9/23/17 4:23
Tetrachloro-m-xylene [2]	95.5	30-150		9/23/17 4:23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-23 Sampled: 9/12/2017 09:44

Sample ID: 17I0465-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.7	30-150		9/27/17 17:11
Decachlorobiphenyl [2]	75.7	30-150		9/27/17 17:11
Tetrachloro-m-xylene [1]	82.9	30-150		9/27/17 17:11
Tetrachloro-m-xylene [2]	85.5	30-150		9/27/17 17:11

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-24 Sampled: 9/12/2017 09:43

Sample ID: 17I0465-04

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.0	30-150		9/27/17 17:29
Decachlorobiphenyl [2]	79.5	30-150		9/27/17 17:29
Tetrachloro-m-xylene [1]	83.4	30-150		9/27/17 17:29
Tetrachloro-m-xylene [2]	86.3	30-150		9/27/17 17:29

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-25 Sampled: 9/12/2017 09:41

Sample ID: 17I0465-05

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.1	30-150		9/27/17 17:47
Decachlorobiphenyl [2]	88.5	30-150		9/27/17 17:47
Tetrachloro-m-xylene [1]	87.6	30-150		9/27/17 17:47
Tetrachloro-m-xylene [2]	89.5	30-150		9/27/17 17:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-26 Sampled: 9/12/2017 10:11

Sample ID: 17I0465-06

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.0	30-150		9/27/17 18:04
Decachlorobiphenyl [2]	93.6	30-150		9/27/17 18:04
Tetrachloro-m-xylene [1]	95.5	30-150		9/27/17 18:04
Tetrachloro-m-xylene [2]	97.5	30-150		9/27/17 18:04

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-27 Sampled: 9/12/2017 09:55

Sample ID: 17I0465-07

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.2	30-150		9/27/17 18:22
Decachlorobiphenyl [2]	88.0	30-150		9/27/17 18:22
Tetrachloro-m-xylene [1]	97.8	30-150		9/27/17 18:22
Tetrachloro-m-xylene [2]	100	30-150		9/27/17 18:22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-28 Sampled: 9/12/2017 09:57

Sample ID: 17I0465-08

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.5	30-150		9/27/17 18:40
Decachlorobiphenyl [2]	94.1	30-150		9/27/17 18:40
Tetrachloro-m-xylene [1]	95.4	30-150		9/27/17 18:40
Tetrachloro-m-xylene [2]	97.3	30-150		9/27/17 18:40

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-30 Sampled: 9/12/2017 10:19

Sample ID: 17I0465-09

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.6	30-150		9/27/17 18:58
Decachlorobiphenyl [2]	97.0	30-150		9/27/17 18:58
Tetrachloro-m-xylene [1]	97.2	30-150		9/27/17 18:58
Tetrachloro-m-xylene [2]	99.4	30-150		9/27/17 18:58

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-31 Sampled: 9/12/2017 10:20

Sample ID: 17I0465-10

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.0	30-150		9/27/17 19:16
Decachlorobiphenyl [2]	89.4	30-150		9/27/17 19:16
Tetrachloro-m-xylene [1]	93.8	30-150		9/27/17 19:16
Tetrachloro-m-xylene [2]	95.8	30-150		9/27/17 19:16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-32 Sampled: 9/12/2017 10:21

Sample ID: 17I0465-11

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.1	30-150		9/27/17 20:22
Decachlorobiphenyl [2]	97.1	30-150		9/27/17 20:22
Tetrachloro-m-xylene [1]	103	30-150		9/27/17 20:22
Tetrachloro-m-xylene [2]	105	30-150		9/27/17 20:22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-33 Sampled: 9/12/2017 10:22

Sample ID: 17I0465-12

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.4	30-150		9/27/17 20:39
Decachlorobiphenyl [2]	99.3	30-150		9/27/17 20:39
Tetrachloro-m-xylene [1]	99.3	30-150		9/27/17 20:39
Tetrachloro-m-xylene [2]	101	30-150		9/27/17 20:39

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-34 Sampled: 9/12/2017 10:23

Sample ID: 17I0465-13

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.3	30-150		9/27/17 20:57
Decachlorobiphenyl [2]	106	30-150		9/27/17 20:57
Tetrachloro-m-xylene [1]	105	30-150		9/27/17 20:57
Tetrachloro-m-xylene [2]	108	30-150		9/27/17 20:57

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-35 Sampled: 9/12/2017 10:24

Sample ID: 17I0465-14

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.1	30-150		9/27/17 21:15
Decachlorobiphenyl [2]	99.4	30-150		9/27/17 21:15
Tetrachloro-m-xylene [1]	97.1	30-150		9/27/17 21:15
Tetrachloro-m-xylene [2]	98.1	30-150		9/27/17 21:15

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-36 Sampled: 9/12/2017 10:25

Sample ID: 17I0465-15

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.0	30-150		9/27/17 21:33
Decachlorobiphenyl [2]	91.2	30-150		9/27/17 21:33
Tetrachloro-m-xylene [1]	95.9	30-150		9/27/17 21:33
Tetrachloro-m-xylene [2]	96.7	30-150		9/27/17 21:33

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-37 Sampled: 9/12/2017 10:26

Sample ID: 17I0465-16

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.1	30-150		9/27/17 21:50
Decachlorobiphenyl [2]	83.6	30-150		9/27/17 21:50
Tetrachloro-m-xylene [1]	95.2	30-150		9/27/17 21:50
Tetrachloro-m-xylene [2]	97.4	30-150		9/27/17 21:50

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-1 Sampled: 9/12/2017 12:30

Sample ID: 17I0465-17

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.6	30-150		9/27/17 22:08
Decachlorobiphenyl [2]	99.5	30-150		9/27/17 22:08
Tetrachloro-m-xylene [1]	98.7	30-150		9/27/17 22:08
Tetrachloro-m-xylene [2]	101	30-150		9/27/17 22:08

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-2 Sampled: 9/12/2017 12:35

Sample ID: 17I0465-18

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.4	30-150		9/27/17 22:26
Decachlorobiphenyl [2]	101	30-150		9/27/17 22:26
Tetrachloro-m-xylene [1]	101	30-150		9/27/17 22:26
Tetrachloro-m-xylene [2]	102	30-150		9/27/17 22:26

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-3 Sampled: 9/12/2017 12:40

Sample ID: 17I0465-19

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.4	30-150		9/27/17 22:44
Decachlorobiphenyl [2]	93.0	30-150		9/27/17 22:44
Tetrachloro-m-xylene [1]	98.9	30-150		9/27/17 22:44
Tetrachloro-m-xylene [2]	99.1	30-150		9/27/17 22:44

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-4 Sampled: 9/12/2017 12:45

Sample ID: 17I0465-20

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.5	30-150		9/27/17 23:01
Decachlorobiphenyl [2]	89.4	30-150		9/27/17 23:01
Tetrachloro-m-xylene [1]	96.0	30-150		9/27/17 23:01
Tetrachloro-m-xylene [2]	97.2	30-150		9/27/17 23:01

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-Dup20 Sampled: 9/12/2017 00:00

Sample ID: 17I0465-21

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1232 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1242 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1248 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1262 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1268 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	112	30-150		9/22/17 23:19
Decachlorobiphenyl [2]	96.4	30-150		9/22/17 23:19
Tetrachloro-m-xylene [1]	105	30-150		9/22/17 23:19
Tetrachloro-m-xylene [2]	102	30-150		9/22/17 23:19

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-Dup21 Sampled: 9/12/2017 00:00

Sample ID: 17I0465-22

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1232 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1242 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1248 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1262 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1268 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.9	30-150		9/22/17 23:36
Decachlorobiphenyl [2]	81.6	30-150		9/22/17 23:36
Tetrachloro-m-xylene [1]	99.6	30-150		9/22/17 23:36
Tetrachloro-m-xylene [2]	99.4	30-150		9/22/17 23:36

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29 Sampled: 9/12/2017 12:00

Sample ID: 17I0465-23

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	4.0	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Acrylonitrile	ND	0.40	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Benzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Bromobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Bromodichloromethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Bromoform	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Bromomethane	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
2-Butanone (MEK)	ND	1.6	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
n-Butylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
sec-Butylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
tert-Butylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Carbon Disulfide	ND	0.24	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Carbon Tetrachloride	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Chlorobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Chlorodibromomethane	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Chloroethane	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Chloroform	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Chloromethane	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
2-Chlorotoluene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
4-Chlorotoluene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.40	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2-Dibromoethane (EDB)	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Dibromomethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2-Dichlorobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,3-Dichlorobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,4-Dichlorobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
trans-1,4-Dichloro-2-butene	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1-Dichloroethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2-Dichloroethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1-Dichloroethylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
cis-1,2-Dichloroethylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
trans-1,2-Dichloroethylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2-Dichloropropane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,3-Dichloropropane	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
2,2-Dichloropropane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1-Dichloropropene	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
cis-1,3-Dichloropropene	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
trans-1,3-Dichloropropene	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Ethylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Hexachlorobutadiene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
2-Hexanone (MBK)	ND	0.80	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Isopropylbenzene (Cumene)	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29 Sampled: 9/12/2017 12:00

Sample ID: 17I0465-23

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Methylene Chloride	ND	0.40	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.80	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Naphthalene	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
n-Propylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Styrene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1,1,2-Tetrachloroethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Tetrachloroethylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Tetrahydrofuran	ND	0.80	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Toluene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2,3-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2,4-Trichlorobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1,1-Trichloroethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1,2-Trichloroethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Trichloroethylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Trichlorofluoromethane (Freon 11)	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2,3-Trichloropropane	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2,4-Trimethylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,3,5-Trimethylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Vinyl Chloride	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
m+p Xylene	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
o-Xylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.2	70-130		9/18/17 13:40
Toluene-d8	99.2	70-130		9/18/17 13:40
4-Bromofluorobenzene	107	70-130		9/18/17 13:40

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29 Sampled: 9/12/2017 12:00

Sample ID: 17I0465-23

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Acenaphthylene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Aniline	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Anthracene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Benzo(a)anthracene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Benzo(a)pyrene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Benzo(b)fluoranthene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Benzo(g,h,i)perylene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Benzo(k)fluoranthene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Bis(2-chloroethoxy)methane	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Bis(2-chloroethyl)ether	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Bis(2-chloroisopropyl)ether	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Bis(2-Ethylhexyl)phthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Bromophenylphenylether	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Butylbenzylphthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Carbazole	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Chloroaniline	ND	8.5	mg/Kg dry	5	L-04	SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Chloro-3-methylphenol	ND	8.5	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2-Chloronaphthalene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2-Chlorophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Chlorophenylphenylether	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Chrysene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Dibenz(a,h)anthracene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Dibenzofuran	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Di-n-butylphthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
3,3-Dichlorobenzidine	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4-Dichlorophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Diethylphthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4-Dimethylphenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Dimethylphthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4,6-Dinitro-2-methylphenol	ND	4.4	mg/Kg dry	5	V-04, V-19, V-20	SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4-Dinitrophenol	ND	8.5	mg/Kg dry	5	V-19, V-20	SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4-Dinitrotoluene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,6-Dinitrotoluene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Di-n-octylphthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Fluoranthene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Fluorene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Hexachlorobenzene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Hexachlorobutadiene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Hexachlorocyclopentadiene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Hexachloroethane	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Indeno(1,2,3-cd)pyrene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Isophorone	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2-Methylnaphthalene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29 Sampled: 9/12/2017 12:00

Sample ID: 17I0465-23

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
3/4-Methylphenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Naphthalene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2-Nitroaniline	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
3-Nitroaniline	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Nitroaniline	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Nitrobenzene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2-Nitrophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Nitrophenol	ND	8.5	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
N-Nitrosodiphenylamine	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
N-Nitrosodi-n-propylamine	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Pentachloronitrobenzene	ND	4.4	mg/Kg dry	5	V-16	SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Pentachlorophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Phenanthrene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Phenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Pyrene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Pyridine	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
1,2,4,5-Tetrachlorobenzene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
1,2,4-Trichlorobenzene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4,5-Trichlorophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4,6-Trichlorophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	47.8	30-130		9/21/17 11:47
Phenol-d6	50.2	30-130		9/21/17 11:47
Nitrobenzene-d5	47.7	30-130		9/21/17 11:47
2-Fluorobiphenyl	48.2	30-130		9/21/17 11:47
2,4,6-Tribromophenol	46.8	30-130		9/21/17 11:47
p-Terphenyl-d14	61.5	30-130		9/21/17 11:47

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29 Sampled: 9/12/2017 12:00

Sample ID: 17I0465-23

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1254 [2]	0.18	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1260 [2]	0.49	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.1	30-150		9/21/17 19:13
Decachlorobiphenyl [2]	77.2	30-150		9/21/17 19:13
Tetrachloro-m-xylene [1]	74.8	30-150		9/21/17 19:13
Tetrachloro-m-xylene [2]	77.9	30-150		9/21/17 19:13

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29 Sampled: 9/12/2017 12:00

Sample ID: 17I0465-23

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	27	3.2	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Arsenic	11	3.2	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Barium	280	3.2	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Beryllium	ND	0.32	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Cadmium	2.8	0.32	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Chromium	43	0.64	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Copper	540	0.64	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Lead	1900	0.96	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Mercury	0.28	0.034	mg/Kg dry	1		SW-846 7471B	9/20/17	9/20/17 12:41	TJK
Nickel	49	0.64	mg/Kg dry	1	B, B-07	SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Selenium	ND	6.4	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Silver	ND	0.64	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Thallium	ND	3.2	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/21/17 13:13	QNW
Vanadium	110	1.3	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Zinc	920	1.3	mg/Kg dry	1	B-07, B	SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29 Sampled: 9/12/2017 12:00

Sample ID: 17I0465-23

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.6		% Wt	1		SM 2540G	9/19/17	9/20/17 9:15	MRL

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0465-23 [WS-AOC15-SE-29]	B186542	09/19/17

Prep Method: SW-846 3051-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-23 [WS-AOC15-SE-29]	B186613	1.02	50.0	09/20/17

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-23 [WS-AOC15-SE-29]	B186623	0.578	50.0	09/20/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-01 [WS-AOC15-AS-21]	B186600	2.00	10.0	09/19/17
17I0465-03 [WS-AOC15-AS-23]	B186600	2.00	10.0	09/19/17
17I0465-04 [WS-AOC15-AS-24]	B186600	2.00	10.0	09/19/17
17I0465-05 [WS-AOC15-AS-25]	B186600	2.00	10.0	09/19/17
17I0465-06 [WS-AOC15-AS-26]	B186600	2.00	10.0	09/19/17
17I0465-07 [WS-AOC15-AS-27]	B186600	2.00	10.0	09/19/17
17I0465-08 [WS-AOC15-AS-28]	B186600	2.00	10.0	09/19/17
17I0465-09 [WS-AOC15-AS-30]	B186600	2.00	10.0	09/19/17
17I0465-10 [WS-AOC15-AS-31]	B186600	2.00	10.0	09/19/17
17I0465-11 [WS-AOC15-AS-32]	B186600	2.00	10.0	09/19/17
17I0465-12 [WS-AOC15-AS-33]	B186600	2.00	10.0	09/19/17
17I0465-13 [WS-AOC15-AS-34]	B186600	2.00	10.0	09/19/17
17I0465-14 [WS-AOC15-AS-35]	B186600	2.00	10.0	09/19/17
17I0465-15 [WS-AOC15-AS-36]	B186600	2.00	10.0	09/19/17
17I0465-16 [WS-AOC15-AS-37]	B186600	2.00	10.0	09/19/17
17I0465-17 [WS-AOC12N-AS-1]	B186600	2.00	10.0	09/19/17
17I0465-18 [WS-AOC12N-AS-2]	B186600	2.00	10.0	09/19/17
17I0465-19 [WS-AOC12N-AS-3]	B186600	2.00	10.0	09/19/17
17I0465-20 [WS-AOC12N-AS-4]	B186600	2.00	10.0	09/19/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-21 [WS-AOC15-AS-Dup20]	B186606	2.00	10.0	09/19/17
17I0465-22 [WS-AOC12N-AS-Dup21]	B186606	2.00	10.0	09/19/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-02RE1 [WS-AOC15-AS-22]	B186709	2.04	10.0	09/20/17

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-23 [WS-AOC15-SE-29]	B186583	10.0	10.0	09/19/17

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
17I0465-23 [WS-AOC15-SE-29]	B186119	5.04	6.18	1	50	09/13/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-23 [WS-AOC15-SE-29]	B186627	30.4	2.00	09/20/17

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186119 - SW-846 5035										
Blank (B186119-BLK1)				Prepared: 09/13/17 Analyzed: 09/18/17						
Acetone	ND	2.5	mg/Kg wet							
Acrylonitrile	ND	0.25	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.050	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
Carbon Disulfide	ND	0.15	mg/Kg wet							
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186119 - SW-846 5035										
Blank (B186119-BLK1)				Prepared: 09/13/17 Analyzed: 09/18/17						
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.50	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0230*		mg/Kg wet	0.0283		81.2	70-130			
Surrogate: Toluene-d8	*0.0240*		mg/Kg wet	0.0283		84.8	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0252*		mg/Kg wet	0.0283		88.8	70-130			
LCS (B186119-BS1)				Prepared: 09/13/17 Analyzed: 09/18/17						
Acetone	0.0948	0.057	mg/Kg wet	0.113		83.7	70-130			
Acrylonitrile	0.0103	0.0057	mg/Kg wet	0.0113		90.6	70-130			
Benzene	0.00989	0.0011	mg/Kg wet	0.0113		87.3	70-130			
Bromobenzene	0.0108	0.0011	mg/Kg wet	0.0113		95.3	70-130			
Bromodichloromethane	0.0112	0.0011	mg/Kg wet	0.0113		98.5	70-130			
Bromoform	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
Bromomethane	0.0125	0.0023	mg/Kg wet	0.0113		111	70-130			
2-Butanone (MEK)	0.103	0.023	mg/Kg wet	0.113		90.5	70-130			
n-Butylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
sec-Butylbenzene	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130			
tert-Butylbenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.8	70-130			
Carbon Disulfide	0.0980	0.0034	mg/Kg wet	0.113		86.4	70-130			
Carbon Tetrachloride	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
Chlorobenzene	0.0114	0.0011	mg/Kg wet	0.0113		100	70-130			
Chlorodibromomethane	0.0118	0.00057	mg/Kg wet	0.0113		104	70-130			
Chloroethane	0.0103	0.0023	mg/Kg wet	0.0113		90.6	70-130			
Chloroform	0.0103	0.0023	mg/Kg wet	0.0113		91.2	70-130			
Chloromethane	0.00887	0.0023	mg/Kg wet	0.0113		78.3	70-130			
2-Chlorotoluene	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130			
4-Chlorotoluene	0.0112	0.0011	mg/Kg wet	0.0113		98.7	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0104	0.0057	mg/Kg wet	0.0113		91.5	70-130			
1,2-Dibromoethane (EDB)	0.0110	0.00057	mg/Kg wet	0.0113		97.4	70-130			
Dibromomethane	0.0110	0.0011	mg/Kg wet	0.0113		97.2	70-130			
1,2-Dichlorobenzene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
1,3-Dichlorobenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.8	70-130			
1,4-Dichlorobenzene	0.0113	0.0011	mg/Kg wet	0.0113		99.8	70-130			
trans-1,4-Dichloro-2-butene	0.0124	0.0023	mg/Kg wet	0.0113		109	70-130			
Dichlorodifluoromethane (Freon 12)	0.0122	0.0023	mg/Kg wet	0.0113		107	70-130			
1,1-Dichloroethane	0.0101	0.0011	mg/Kg wet	0.0113		89.3	70-130			
1,2-Dichloroethane	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
1,1-Dichloroethylene	0.00943	0.0011	mg/Kg wet	0.0113		83.2	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186119 - SW-846 5035										
LCS (B186119-BS1)				Prepared: 09/13/17 Analyzed: 09/18/17						
cis-1,2-Dichloroethylene	0.0102	0.0011	mg/Kg wet	0.0113		89.6	70-130			
trans-1,2-Dichloroethylene	0.00971	0.0011	mg/Kg wet	0.0113		85.7	70-130			
1,2-Dichloropropane	0.0106	0.0011	mg/Kg wet	0.0113		93.9	70-130			
1,3-Dichloropropane	0.0108	0.00057	mg/Kg wet	0.0113		95.5	70-130			
2,2-Dichloropropane	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
1,1-Dichloropropene	0.0104	0.0023	mg/Kg wet	0.0113		91.6	70-130			
cis-1,3-Dichloropropene	0.0110	0.00057	mg/Kg wet	0.0113		97.3	70-130			
trans-1,3-Dichloropropene	0.0114	0.00057	mg/Kg wet	0.0113		101	70-130			
Ethylbenzene	0.0113	0.0011	mg/Kg wet	0.0113		100	70-130			
Hexachlorobutadiene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
2-Hexanone (MBK)	0.114	0.011	mg/Kg wet	0.113		101	70-130			
Isopropylbenzene (Cumene)	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
p-Isopropyltoluene (p-Cymene)	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0104	0.0011	mg/Kg wet	0.0113		91.4	70-130			
Methylene Chloride	0.0120	0.0057	mg/Kg wet	0.0113		106	70-130			
4-Methyl-2-pentanone (MIBK)	0.115	0.011	mg/Kg wet	0.113		101	70-130			
Naphthalene	0.0121	0.0023	mg/Kg wet	0.0113		107	70-130			
n-Propylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
Styrene	0.0116	0.0011	mg/Kg wet	0.0113		103	70-130			
1,1,1,2-Tetrachloroethane	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130			
1,1,2,2-Tetrachloroethane	0.0115	0.00057	mg/Kg wet	0.0113		101	70-130			
Tetrachloroethylene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
Tetrahydrofuran	0.00941	0.011	mg/Kg wet	0.0113		83.0	70-130			
Toluene	0.0113	0.0011	mg/Kg wet	0.0113		99.8	70-130			
1,2,3-Trichlorobenzene	0.0120	0.0057	mg/Kg wet	0.0113		106	70-130			
1,2,4-Trichlorobenzene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			
1,1,1-Trichloroethane	0.0108	0.0011	mg/Kg wet	0.0113		95.5	70-130			
1,1,2-Trichloroethane	0.0113	0.0011	mg/Kg wet	0.0113		99.4	70-130			
Trichloroethylene	0.0109	0.0011	mg/Kg wet	0.0113		95.8	70-130			
Trichlorofluoromethane (Freon 11)	0.0111	0.0023	mg/Kg wet	0.0113		97.8	70-130			
1,2,3-Trichloropropane	0.00971	0.0023	mg/Kg wet	0.0113		85.7	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0103	0.0011	mg/Kg wet	0.0113		90.5	70-130			
1,2,4-Trimethylbenzene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
1,3,5-Trimethylbenzene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
Vinyl Chloride	0.00954	0.0023	mg/Kg wet	0.0113		84.2	70-130			
m+p Xylene	0.0227	0.0023	mg/Kg wet	0.0227		100	70-130			
o-Xylene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0267*		mg/Kg wet	0.0283		94.4	70-130			
Surrogate: Toluene-d8	*0.0279*		mg/Kg wet	0.0283		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0283*		mg/Kg wet	0.0283		100	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186627 - SW-846 3546										
Blank (B186627-BLK1)				Prepared: 09/20/17 Analyzed: 09/21/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							L-04
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							V-04, V-19, V-20
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-19, V-20
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B186627 - SW-846 3546												
Blank (B186627-BLK1)				Prepared: 09/20/17 Analyzed: 09/21/17								
4-Nitrophenol	ND	0.66	mg/Kg wet									
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet									
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet									
Pentachloronitrobenzene	ND	0.34	mg/Kg wet								V-16	
Pentachlorophenol	ND	0.34	mg/Kg wet									
Phenanthrene	ND	0.17	mg/Kg wet									
Phenol	ND	0.34	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
Pyridine	ND	0.34	mg/Kg wet									
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet									
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet									
Surrogate: 2-Fluorophenol	*4.43*		mg/Kg wet	6.67		66.4		30-130				
Surrogate: Phenol-d6	*4.62*		mg/Kg wet	6.67		69.3		30-130				
Surrogate: Nitrobenzene-d5	*2.30*		mg/Kg wet	3.33		69.0		30-130				
Surrogate: 2-Fluorobiphenyl	*2.35*		mg/Kg wet	3.33		70.4		30-130				
Surrogate: 2,4,6-Tribromophenol	*3.98*		mg/Kg wet	6.67		59.8		30-130				
Surrogate: p-Terphenyl-d14	*2.72*		mg/Kg wet	3.33		81.5		30-130				
LCS (B186627-BS1)				Prepared: 09/20/17 Analyzed: 09/21/17								
Acenaphthene	1.05	0.17	mg/Kg wet	1.67		62.8		40-140				
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.3		40-140				
Aniline	0.956	0.34	mg/Kg wet	1.67		57.4		40-140				†
Anthracene	1.05	0.17	mg/Kg wet	1.67		63.1		40-140				
Benzo(a)anthracene	1.00	0.17	mg/Kg wet	1.67		60.2		40-140				
Benzo(a)pyrene	1.04	0.17	mg/Kg wet	1.67		62.1		40-140				
Benzo(b)fluoranthene	0.980	0.17	mg/Kg wet	1.67		58.8		40-140				
Benzo(g,h,i)perylene	1.14	0.17	mg/Kg wet	1.67		68.5		40-140				
Benzo(k)fluoranthene	0.979	0.17	mg/Kg wet	1.67		58.7		40-140				
Bis(2-chloroethoxy)methane	1.27	0.34	mg/Kg wet	1.67		76.4		40-140				
Bis(2-chloroethyl)ether	1.18	0.34	mg/Kg wet	1.67		70.7		40-140				
Bis(2-chloroisopropyl)ether	1.25	0.34	mg/Kg wet	1.67		75.1		40-140				
Bis(2-Ethylhexyl)phthalate	1.29	0.34	mg/Kg wet	1.67		77.4		40-140				
4-Bromophenylphenylether	1.14	0.34	mg/Kg wet	1.67		68.6		40-140				
Butylbenzylphthalate	1.19	0.34	mg/Kg wet	1.67		71.2		40-140				
Carbazole	1.04	0.17	mg/Kg wet	1.67		62.3		40-140				
4-Chloroaniline	0.603	0.66	mg/Kg wet	1.67		**36.2**	*	40-140			L-04	†
4-Chloro-3-methylphenol	1.05	0.66	mg/Kg wet	1.67		62.9		30-130				
2-Chloronaphthalene	1.05	0.34	mg/Kg wet	1.67		63.3		40-140				
2-Chlorophenol	1.08	0.34	mg/Kg wet	1.67		65.0		30-130				
4-Chlorophenylphenylether	1.08	0.34	mg/Kg wet	1.67		65.1		40-140				
Chrysene	0.996	0.17	mg/Kg wet	1.67		59.7		40-140				
Dibenz(a,h)anthracene	1.05	0.17	mg/Kg wet	1.67		63.0		40-140				
Dibenzofuran	1.03	0.34	mg/Kg wet	1.67		62.0		40-140				
Di-n-butylphthalate	1.16	0.34	mg/Kg wet	1.67		69.5		40-140				
3,3-Dichlorobenzidine	1.44	0.17	mg/Kg wet	1.67		86.4		40-140				†
2,4-Dichlorophenol	1.11	0.34	mg/Kg wet	1.67		66.5		30-130				
Diethylphthalate	1.04	0.34	mg/Kg wet	1.67		62.3		40-140				
2,4-Dimethylphenol	1.08	0.34	mg/Kg wet	1.67		65.1		30-130				
Dimethylphthalate	1.08	0.34	mg/Kg wet	1.67		65.0		40-140				
4,6-Dinitro-2-methylphenol	1.24	0.34	mg/Kg wet	1.67		74.6		30-130			V-04, V-19, V-20	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B186627 - SW-846 3546											
LCS (B186627-BS1)				Prepared: 09/20/17 Analyzed: 09/21/17							
2,4-Dinitrophenol	1.11	0.66	mg/Kg wet	1.67		66.3	30-130			V-19, V-20	
2,4-Dinitrotoluene	1.21	0.34	mg/Kg wet	1.67		72.8	40-140				
2,6-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.67		79.4	40-140				
Di-n-octylphthalate	1.10	0.34	mg/Kg wet	1.67		66.2	40-140				
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140				
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140				
Hexachlorobenzene	1.10	0.34	mg/Kg wet	1.67		65.8	40-140				
Hexachlorobutadiene	1.04	0.34	mg/Kg wet	1.67		62.1	40-140				
Hexachlorocyclopentadiene	1.03	0.34	mg/Kg wet	1.67		61.8	30-140				
Hexachloroethane	1.04	0.34	mg/Kg wet	1.67		62.3	40-140				
Indeno(1,2,3-cd)pyrene	1.11	0.17	mg/Kg wet	1.67		66.3	40-140				
Isophorone	1.24	0.34	mg/Kg wet	1.67		74.2	40-140				
2-Methylnaphthalene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140				
2-Methylphenol	1.09	0.34	mg/Kg wet	1.67		65.2	30-130				
3/4-Methylphenol	1.10	0.34	mg/Kg wet	1.67		66.2	30-130				
Naphthalene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140				
2-Nitroaniline	1.13	0.34	mg/Kg wet	1.67		67.5	40-140				
3-Nitroaniline	0.938	0.34	mg/Kg wet	1.67		56.3	40-140				†
4-Nitroaniline	1.06	0.34	mg/Kg wet	1.67		63.6	40-140				
Nitrobenzene	1.16	0.34	mg/Kg wet	1.67		69.6	40-140				
2-Nitrophenol	1.25	0.34	mg/Kg wet	1.67		75.3	30-130				
4-Nitrophenol	1.07	0.66	mg/Kg wet	1.67		64.0	10-130				
N-Nitrosodiphenylamine	1.39	0.34	mg/Kg wet	1.67		83.4	40-140				
N-Nitrosodi-n-propylamine	1.12	0.34	mg/Kg wet	1.67		67.4	40-140				
Pentachloronitrobenzene	1.16	0.34	mg/Kg wet	1.67		69.7	40-140			V-16	
Pentachlorophenol	1.12	0.34	mg/Kg wet	1.67		67.1	30-130				
Phenanthrene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140				
Phenol	1.08	0.34	mg/Kg wet	1.67		64.7	20-130				
Pyrene	0.980	0.17	mg/Kg wet	1.67		58.8	40-140				
Pyridine	0.784	0.34	mg/Kg wet	1.67		47.0	10-140				†
1,2,4,5-Tetrachlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.5	40-140				
1,2,4-Trichlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.5	40-140				
2,4,5-Trichlorophenol	1.09	0.34	mg/Kg wet	1.67		65.1	30-130				
2,4,6-Trichlorophenol	1.09	0.34	mg/Kg wet	1.67		65.3	30-130				
Surrogate: 2-Fluorophenol	*4.49*		mg/Kg wet	6.67		67.3	30-130				
Surrogate: Phenol-d6	*4.53*		mg/Kg wet	6.67		67.9	30-130				
Surrogate: Nitrobenzene-d5	*2.44*		mg/Kg wet	3.33		73.3	30-130				
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/Kg wet	3.33		69.8	30-130				
Surrogate: 2,4,6-Tribromophenol	*4.28*		mg/Kg wet	6.67		64.2	30-130				
Surrogate: p-Terphenyl-d14	*2.21*		mg/Kg wet	3.33		66.2	30-130				
LCS Dup (B186627-BSD1)				Prepared: 09/20/17 Analyzed: 09/21/17							
Acenaphthene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140	0.350	30		
Acenaphthylene	0.996	0.17	mg/Kg wet	1.67		59.7	40-140	0.900	30		
Aniline	0.908	0.34	mg/Kg wet	1.67		54.5	40-140	5.15	50		† ‡
Anthracene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140	3.64	30		
Benzo(a)anthracene	1.05	0.17	mg/Kg wet	1.67		63.3	40-140	4.92	30		
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140	5.08	30		
Benzo(b)fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140	5.23	30		
Benzo(g,h,i)perylene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	5.90	30		
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	6.43	30		
Bis(2-chloroethoxy)methane	1.23	0.34	mg/Kg wet	1.67		73.8	40-140	3.36	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B186627 - SW-846 3546												
LCS Dup (B186627-BSD1)				Prepared: 09/20/17 Analyzed: 09/21/17								
Bis(2-chloroethyl)ether	1.14	0.34	mg/Kg wet	1.67		68.1		40-140	3.69	30		
Bis(2-chloroisopropyl)ether	1.19	0.34	mg/Kg wet	1.67		71.1		40-140	5.42	30		
Bis(2-Ethylhexyl)phthalate	1.25	0.34	mg/Kg wet	1.67		74.7		40-140	3.55	30		
4-Bromophenylphenylether	1.19	0.34	mg/Kg wet	1.67		71.5		40-140	4.17	30		
Butylbenzylphthalate	1.22	0.34	mg/Kg wet	1.67		73.5		40-140	3.15	30		
Carbazole	1.07	0.17	mg/Kg wet	1.67		64.3		40-140	3.16	30		
4-Chloroaniline	0.561	0.66	mg/Kg wet	1.67		**33.7**	*	40-140	7.16	30	L-04	†
4-Chloro-3-methylphenol	1.04	0.66	mg/Kg wet	1.67		62.3		30-130	0.959	30		
2-Chloronaphthalene	1.07	0.34	mg/Kg wet	1.67		64.0		40-140	1.13	30		
2-Chlorophenol	1.04	0.34	mg/Kg wet	1.67		62.5		30-130	3.89	30		
4-Chlorophenylphenylether	1.08	0.34	mg/Kg wet	1.67		64.7		40-140	0.586	30		
Chrysene	1.05	0.17	mg/Kg wet	1.67		62.8		40-140	5.06	30		
Dibenz(a,h)anthracene	1.14	0.17	mg/Kg wet	1.67		68.6		40-140	8.39	30		
Dibenzofuran	1.04	0.34	mg/Kg wet	1.67		62.6		40-140	1.06	30		
Di-n-butylphthalate	1.19	0.34	mg/Kg wet	1.67		71.6		40-140	3.06	30		
3,3-Dichlorobenzidine	1.53	0.17	mg/Kg wet	1.67		91.6		40-140	5.91	30		† ‡
2,4-Dichlorophenol	1.08	0.34	mg/Kg wet	1.67		65.0		30-130	2.34	30		
Diethylphthalate	1.04	0.34	mg/Kg wet	1.67		62.4		40-140	0.192	30		
2,4-Dimethylphenol	1.06	0.34	mg/Kg wet	1.67		63.4		30-130	2.71	30		
Dimethylphthalate	1.07	0.34	mg/Kg wet	1.67		64.5		40-140	0.742	50		
4,6-Dinitro-2-methylphenol	1.27	0.34	mg/Kg wet	1.67		76.4		30-130	2.36	50	V-04, V-19, V-20	
2,4-Dinitrophenol	1.07	0.66	mg/Kg wet	1.67		64.3		30-130	3.03	50	V-19, V-20	
2,4-Dinitrotoluene	1.23	0.34	mg/Kg wet	1.67		73.5		40-140	0.929	30		
2,6-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.67		79.0		40-140	0.505	30		
Di-n-octylphthalate	1.19	0.34	mg/Kg wet	1.67		71.7		40-140	7.95	30		
Fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.2		40-140	4.10	30		
Fluorene	1.00	0.17	mg/Kg wet	1.67		60.2		40-140	0.860	30		
Hexachlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.5		40-140	1.03	30		
Hexachlorobutadiene	0.976	0.34	mg/Kg wet	1.67		58.5		40-140	5.90	30		
Hexachlorocyclopentadiene	1.04	0.34	mg/Kg wet	1.67		62.7		30-140	1.48	50		
Hexachloroethane	0.969	0.34	mg/Kg wet	1.67		58.1		40-140	6.88	50		
Indeno(1,2,3-cd)pyrene	1.18	0.17	mg/Kg wet	1.67		71.1		40-140	6.87	50		
Isophorone	1.20	0.34	mg/Kg wet	1.67		72.0		40-140	3.01	30		
2-Methylnaphthalene	1.05	0.17	mg/Kg wet	1.67		63.3		40-140	4.36	30		
2-Methylphenol	1.07	0.34	mg/Kg wet	1.67		64.1		30-130	1.73	30		
3/4-Methylphenol	1.08	0.34	mg/Kg wet	1.67		64.9		30-130	1.92	30		
Naphthalene	0.974	0.17	mg/Kg wet	1.67		58.4		40-140	3.33	30		
2-Nitroaniline	1.14	0.34	mg/Kg wet	1.67		68.3		40-140	1.09	30		
3-Nitroaniline	0.928	0.34	mg/Kg wet	1.67		55.7		40-140	1.04	30		†
4-Nitroaniline	1.08	0.34	mg/Kg wet	1.67		64.8		40-140	1.93	30		
Nitrobenzene	1.10	0.34	mg/Kg wet	1.67		65.7		40-140	5.71	30		
2-Nitrophenol	1.20	0.34	mg/Kg wet	1.67		72.1		30-130	4.32	30		
4-Nitrophenol	1.06	0.66	mg/Kg wet	1.67		63.5		10-130	0.721	50		‡
N-Nitrosodiphenylamine	1.46	0.34	mg/Kg wet	1.67		87.7		40-140	5.00	30		
N-Nitrosodi-n-propylamine	1.08	0.34	mg/Kg wet	1.67		64.9		40-140	3.81	30		
Pentachloronitrobenzene	1.21	0.34	mg/Kg wet	1.67		72.5		40-140	3.91	30	V-16	
Pentachlorophenol	1.16	0.34	mg/Kg wet	1.67		69.7		30-130	3.92	50		
Phenanthrene	1.08	0.17	mg/Kg wet	1.67		65.0		40-140	4.34	30		
Phenol	1.04	0.34	mg/Kg wet	1.67		62.6		20-130	3.21	30		
Pyrene	1.04	0.17	mg/Kg wet	1.67		62.2		40-140	5.68	30		
Pyridine	0.714	0.34	mg/Kg wet	1.67		42.8		10-140	9.35	50		†
1,2,4,5-Tetrachlorobenzene	1.08	0.34	mg/Kg wet	1.67		64.5		40-140	1.54	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186627 - SW-846 3546										
LCS Dup (B186627-BSD1)				Prepared: 09/20/17 Analyzed: 09/21/17						
1,2,4-Trichlorobenzene	1.04	0.34	mg/Kg wet	1.67		62.4	40-140	4.91	30	
2,4,5-Trichlorophenol	1.08	0.34	mg/Kg wet	1.67		64.7	30-130	0.740	30	
2,4,6-Trichlorophenol	1.09	0.34	mg/Kg wet	1.67		65.5	30-130	0.275	50	
Surrogate: 2-Fluorophenol	*4.21*		mg/Kg wet	6.67		63.1	30-130			
Surrogate: Phenol-d6	*4.31*		mg/Kg wet	6.67		64.6	30-130			
Surrogate: Nitrobenzene-d5	*2.25*		mg/Kg wet	3.33		67.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.31*		mg/Kg wet	3.33		69.3	30-130			
Surrogate: 2,4,6-Tribromophenol	*4.31*		mg/Kg wet	6.67		64.7	30-130			
Surrogate: p-Terphenyl-d14	*2.27*		mg/Kg wet	3.33		68.0	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186583 - SW-846 3540C										
Blank (B186583-BLK1)				Prepared: 09/19/17 Analyzed: 09/21/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.203*		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.186*		mg/Kg wet	0.200		93.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		85.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.179*		mg/Kg wet	0.200		89.6	30-150			
LCS (B186583-BS1)				Prepared: 09/19/17 Analyzed: 09/21/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		78.6	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.4	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.8	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.0	40-140			
Surrogate: Decachlorobiphenyl	*0.201*		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.187*		mg/Kg wet	0.200		93.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		86.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.178*		mg/Kg wet	0.200		89.1	30-150			
LCS Dup (B186583-BSD1)				Prepared: 09/19/17 Analyzed: 09/21/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		87.8	40-140	11.1	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		94.7	40-140	6.92	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		85.0	40-140	6.32	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		82.0	40-140	5.03	30	
Surrogate: Decachlorobiphenyl	*0.204*		mg/Kg wet	0.200		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.188*		mg/Kg wet	0.200		94.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.181*		mg/Kg wet	0.200		90.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.186*		mg/Kg wet	0.200		93.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186600 - SW-846 3540C										
Blank (B186600-BLK1)				Prepared: 09/19/17 Analyzed: 09/27/17						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.957*		mg/Kg	1.00		95.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.907*		mg/Kg	1.00		90.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.926*		mg/Kg	1.00		92.6	30-150			
LCS (B186600-BS1)				Prepared: 09/19/17 Analyzed: 09/27/17						
Aroclor-1016	0.85	0.10	mg/Kg	1.00		85.1	40-140			
Aroclor-1016 [2C]	0.87	0.10	mg/Kg	1.00		86.8	40-140			
Aroclor-1260	0.84	0.10	mg/Kg	1.00		83.7	40-140			
Aroclor-1260 [2C]	0.85	0.10	mg/Kg	1.00		84.6	40-140			
Surrogate: Decachlorobiphenyl	*0.907*		mg/Kg	1.00		90.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.992*		mg/Kg	1.00		99.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.847*		mg/Kg	1.00		84.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.876*		mg/Kg	1.00		87.6	30-150			
LCS Dup (B186600-BSD1)				Prepared: 09/19/17 Analyzed: 09/27/17						
Aroclor-1016	0.91	0.10	mg/Kg	1.00		91.5	40-140	7.22	30	
Aroclor-1016 [2C]	0.90	0.10	mg/Kg	1.00		90.1	40-140	3.73	30	
Aroclor-1260	0.89	0.10	mg/Kg	1.00		88.8	40-140	5.94	30	
Aroclor-1260 [2C]	0.87	0.10	mg/Kg	1.00		87.2	40-140	3.06	30	
Surrogate: Decachlorobiphenyl	*0.933*		mg/Kg	1.00		93.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.921*		mg/Kg	1.00		92.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.924*		mg/Kg	1.00		92.4	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186600 - SW-846 3540C										
Matrix Spike (B186600-MS1)		**Source: 17I0465-07**		Prepared: 09/19/17 Analyzed: 09/27/17						
Aroclor-1016	1.0	1.0	mg/Kg	1.00	ND	99.8	40-140			
Aroclor-1016 [2C]	1.0	1.0	mg/Kg	1.00	ND	101	40-140			
Aroclor-1260	0.84	1.0	mg/Kg	1.00	ND	84.3	40-140			
Aroclor-1260 [2C]	0.85	1.0	mg/Kg	1.00	ND	84.8	40-140			
Surrogate: Decachlorobiphenyl	*0.700*		mg/Kg	1.00		70.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.799*		mg/Kg	1.00		79.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.894*		mg/Kg	1.00		89.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.901*		mg/Kg	1.00		90.1	30-150			
Matrix Spike Dup (B186600-MSD1)		**Source: 17I0465-07**		Prepared: 09/19/17 Analyzed: 09/27/17						
Aroclor-1016	0.94	1.0	mg/Kg	1.00	ND	94.3	40-140	5.66	50	
Aroclor-1016 [2C]	0.94	1.0	mg/Kg	1.00	ND	94.1	40-140	7.48	50	
Aroclor-1260	0.81	1.0	mg/Kg	1.00	ND	81.0	40-140	3.99	50	
Aroclor-1260 [2C]	0.81	1.0	mg/Kg	1.00	ND	80.9	40-140	4.64	50	
Surrogate: Decachlorobiphenyl	*0.675*		mg/Kg	1.00		67.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.775*		mg/Kg	1.00		77.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.854*		mg/Kg	1.00		85.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.864*		mg/Kg	1.00		86.4	30-150			
Batch B186606 - SW-846 3540C										
Blank (B186606-BLK1)				Prepared: 09/19/17 Analyzed: 09/22/17						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.14*		mg/Kg	1.00		114	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.04*		mg/Kg	1.00		104	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186606 - SW-846 3540C										
LCS (B186606-BS1)				Prepared: 09/19/17 Analyzed: 09/22/17						
Aroclor-1016	1.0	0.10	mg/Kg	1.00		101	40-140			
Aroclor-1016 [2C]	1.0	0.10	mg/Kg	1.00		104	40-140			
Aroclor-1260	0.96	0.10	mg/Kg	1.00		96.0	40-140			
Aroclor-1260 [2C]	0.88	0.10	mg/Kg	1.00		88.1	40-140			
Surrogate: Decachlorobiphenyl	*1.11*		mg/Kg	1.00		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.04*		mg/Kg	1.00		104	30-150			
LCS Dup (B186606-BSD1)				Prepared: 09/19/17 Analyzed: 09/22/17						
Aroclor-1016	0.95	0.10	mg/Kg	1.00		94.8	40-140	6.81	30	
Aroclor-1016 [2C]	0.96	0.10	mg/Kg	1.00		96.3	40-140	8.14	30	
Aroclor-1260	0.89	0.10	mg/Kg	1.00		88.7	40-140	7.91	30	
Aroclor-1260 [2C]	0.83	0.10	mg/Kg	1.00		82.5	40-140	6.53	30	
Surrogate: Decachlorobiphenyl	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.896*		mg/Kg	1.00		89.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.918*		mg/Kg	1.00		91.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.942*		mg/Kg	1.00		94.2	30-150			
Matrix Spike (B186606-MS1)		**Source: 17I0465-21**		Prepared: 09/19/17 Analyzed: 09/23/17						
Aroclor-1016	0.81	0.10	mg/Kg	1.00	ND	81.5	40-140			
Aroclor-1016 [2C]	0.96	0.10	mg/Kg	1.00	ND	96.5	40-140			
Aroclor-1260	0.99	0.10	mg/Kg	1.00	ND	98.5	40-140			
Aroclor-1260 [2C]	1.4	0.10	mg/Kg	1.00	ND	140	40-140			MS-22
Surrogate: Decachlorobiphenyl	*0.733*		mg/Kg	1.00		73.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.766*		mg/Kg	1.00		76.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.807*		mg/Kg	1.00		80.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.865*		mg/Kg	1.00		86.5	30-150			
Matrix Spike Dup (B186606-MSD1)		**Source: 17I0465-21**		Prepared: 09/19/17 Analyzed: 09/23/17						
Aroclor-1016	0.81	0.10	mg/Kg	1.00	ND	81.5	40-140	0.0227	50	
Aroclor-1016 [2C]	0.91	0.10	mg/Kg	1.00	ND	90.5	40-140	6.32	50	
Aroclor-1260	1.1	0.10	mg/Kg	1.00	ND	107	40-140	8.38	50	
Aroclor-1260 [2C]	1.5	0.10	mg/Kg	1.00	ND	**152** *	40-140	8.28	50	MS-22
Surrogate: Decachlorobiphenyl	*0.758*		mg/Kg	1.00		75.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.807*		mg/Kg	1.00		80.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.843*		mg/Kg	1.00		84.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.913*		mg/Kg	1.00		91.3	30-150			
Batch B186709 - SW-846 3540C										
Blank (B186709-BLK1)				Prepared: 09/20/17 Analyzed: 09/23/17						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186709 - SW-846 3540C										
Blank (B186709-BLK1)				Prepared: 09/20/17 Analyzed: 09/23/17						
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.10*		mg/Kg	1.00		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.10*		mg/Kg	1.00		110	30-150			
LCS (B186709-BS1)				Prepared: 09/20/17 Analyzed: 09/23/17						
Aroclor-1016	1.1	0.10	mg/Kg	1.00		109	40-140			
Aroclor-1016 [2C]	1.1	0.10	mg/Kg	1.00		114	40-140			
Aroclor-1260	1.0	0.10	mg/Kg	1.00		102	40-140			
Aroclor-1260 [2C]	0.99	0.10	mg/Kg	1.00		99.0	40-140			
Surrogate: Decachlorobiphenyl	*1.11*		mg/Kg	1.00		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	*1.09*		mg/Kg	1.00		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.12*		mg/Kg	1.00		112	30-150			
LCS Dup (B186709-BSD1)				Prepared: 09/20/17 Analyzed: 09/23/17						
Aroclor-1016	1.0	0.10	mg/Kg	1.00		103	40-140	5.77	30	
Aroclor-1016 [2C]	1.1	0.10	mg/Kg	1.00		108	40-140	4.58	30	
Aroclor-1260	0.99	0.10	mg/Kg	1.00		98.5	40-140	3.52	30	
Aroclor-1260 [2C]	0.93	0.10	mg/Kg	1.00		93.3	40-140	5.97	30	
Surrogate: Decachlorobiphenyl	*1.11*		mg/Kg	1.00		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.03*		mg/Kg	1.00		103	30-150			
Surrogate: Tetrachloro-m-xylene	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.08*		mg/Kg	1.00		108	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186613 - SW-846 3051										
Blank (B186613-BLK1)				Prepared & Analyzed: 09/20/17						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	0.96	0.50	mg/Kg wet							B-07
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	2.6	1.0	mg/Kg wet							B-07
LCS (B186613-BS1)				Prepared & Analyzed: 09/20/17						
Antimony	137	5.0	mg/Kg wet	146		93.7	0-210.3			
Arsenic	150	5.0	mg/Kg wet	157		95.3	77.8-122.1			
Barium	312	5.0	mg/Kg wet	339		92.0	82-117.4			
Beryllium	52.4	0.50	mg/Kg wet	58.3		89.9	82.3-117.7			
Cadmium	200	0.50	mg/Kg wet	216		92.8	81.9-118.2			
Chromium	81.7	1.0	mg/Kg wet	88.9		92.0	78.7-120.6			
Copper	179	1.0	mg/Kg wet	184		97.5	80.4-119.6			
Lead	94.8	1.5	mg/Kg wet	94.3		101	82.4-117.8			
Nickel	144	1.0	mg/Kg wet	154		93.5	82.2-117.8			B
Selenium	201	10	mg/Kg wet	207		97.1	77.1-122.3			
Silver	34.4	1.0	mg/Kg wet	43.8		78.4	74.3-125.4			
Thallium	153	5.0	mg/Kg wet	167		91.4	78.2-121.6			
Vanadium	86.0	2.0	mg/Kg wet	100		86.0	64.8-135.2			
Zinc	205	2.0	mg/Kg wet	209		98.0	79.7-120.8			B
LCS Dup (B186613-BSD1)				Prepared & Analyzed: 09/20/17						
Antimony	155	5.0	mg/Kg wet	146		106	0-210.3	12.7	30	
Arsenic	158	5.0	mg/Kg wet	157		101	77.8-122.1	5.76	30	
Barium	335	5.0	mg/Kg wet	339		98.9	82-117.4	7.21	30	
Beryllium	58.3	0.50	mg/Kg wet	58.3		99.9	82.3-117.7	10.6	30	
Cadmium	223	0.50	mg/Kg wet	216		103	81.9-118.2	10.8	30	
Chromium	88.9	1.0	mg/Kg wet	88.9		100	78.7-120.6	8.40	30	
Copper	195	1.0	mg/Kg wet	184		106	80.4-119.6	8.30	30	
Lead	97.5	1.5	mg/Kg wet	94.3		103	82.4-117.8	2.79	30	
Nickel	161	1.0	mg/Kg wet	154		105	82.2-117.8	11.3	30	B
Selenium	214	10	mg/Kg wet	207		104	77.1-122.3	6.42	30	
Silver	36.8	1.0	mg/Kg wet	43.8		83.9	74.3-125.4	6.78	30	
Thallium	163	5.0	mg/Kg wet	167		97.7	78.2-121.6	6.68	30	
Vanadium	97.3	2.0	mg/Kg wet	100		97.3	64.8-135.2	12.4	30	
Zinc	225	2.0	mg/Kg wet	209		108	79.7-120.8	9.46	30	B

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186613 - SW-846 3051										
MRL Check (B186613-MRL1)				Prepared: 09/20/17 Analyzed: 09/21/17						
Lead	0.618	0.69	mg/Kg wet	0.689		89.7	80-120			
Batch B186623 - SW-846 7471										
Blank (B186623-BLK1)				Prepared & Analyzed: 09/20/17						
Mercury	ND	0.025	mg/Kg wet							
LCS (B186623-BS1)				Prepared & Analyzed: 09/20/17						
Mercury	9.90	1.9	mg/Kg wet	9.36		106	73.7-126.3			
LCS Dup (B186623-BSD1)				Prepared & Analyzed: 09/20/17						
Mercury	10.3	1.9	mg/Kg wet	9.36		110	73.7-126.3	3.63	30	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC15-SE-29

Lab Sample ID: 17I0465-23

Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.18	18.2
Aroclor-1260	1	0.000	-0.030	0.030	0.35	
	2	0.000	-0.030	0.030	0.49	33.3

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated blank as well as in the sample.
B-07	Data is not affected by elevated level in blank since sample result is >10x level found in the blank.
DL-03	Elevated reporting limit due to matrix.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
RL-12	Elevated reporting limit due to matrix interference.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C-D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH
Fluorene	CT,NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodiphenylamine	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17I04165

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http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 3 of ____

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs (Soxhlet)	I	H	A
01	WS-AOC15-AS-21	9/12/17	1007		X	O	U	X			
02	WS-AOC15-AS-22	↓	945		↓	↓	↓	X			
03	WS-AOC15-AS-23		944					X			
04	WS-AOC15-AS-24		943					X			
05	WS-AOC15-AS-25		941					X			
06	WS-AOC15-AS-26		1011					X			
07	*WS-AOC15-AS-27		955					X			
08	WS-AOC15-AS-28		957					X			
09	WS-AOC15-AS-30		1019					X			
10	WS-AOC15-AS-31	↓	1020		↓	↓	↓	X			

# of Containers
[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments: * - WS-AOC15-AS-27 - Run MS/MSD Duplicate

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) Porous Media

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Relinquished by: (signature)	Date/Time:
9/12/17	1445
Received by: (signature) 9/12/17	Date/Time: 1445
Relinquished by: (signature) 9/12/17	Date/Time: 1930
Received by: (signature) 9/13/17	Date/Time: 1010
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Table of Contents

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs (Soxhlet)											
11	WS-AOC15--AS-32	9/12/17	1021		X	O	U	X											
12	WS-AOC15-AS-33	↓	1022		↓	↓	↓	X											
13	WS-AOC15--AS-34		1023					X											
14	WS-AOC15-AS-35		1024					X											
15	WS-AOC15--AS-36		1025					X											
16	WS-AOC15-AS-37		1026					X											
17	WS-AOC12N-AS-1		1230					X											
18	WS-AOC12N-AS-2		1235					X											
19	WS-AOC12N-AS-3		1240					X											
20	WS-AOC12N-AS-4	↓	1245		↓	↓	↓	X											

[1]																			# of Containers
[2]																			[2] Preservation Code
[3]																			[3] Container Code

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) Porous Media

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature] 9/12/17	1445
Received by: (signature) [signature] 9/12/17	Date/Time:
Relinquished by: (signature)	Date/Time: 9/12/17
Received by: (signature) [signature] 4.4°C	Date/Time: 9/12/17 1610
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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17I0465

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs (Soxhlet)	PAHs	RSR 15 metals	SVOCs	VOCs							# of Containers	[2] Preservation Code	[3] Container Code
21	WS-AOC15-AS-Dup 20	9/12/17	—		X	O	U	X													
22	WS-AOC15-AS-Dup 21		—		X	O	U	X													
23	WS-AOC15-SE-29		1200		X	S	U	X	X	X	X	X									

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) Porous media

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/12/17 1145
Received by: (signature)	Date/Time: 9/12/17 1470
Relinquished by: (signature)	Date/Time: 9/12/17 YD
Received by: (signature) 4.4°C	Date/Time: 9/12/17 1610
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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9/12/17 1610

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By RLF Date 9/12/17 Time 1610

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.4°C
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ____
Are there Rushes? F Who was notified? ____
Are there Short Holds? F Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? NA
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? NA
Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	4
Meoh-	1	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	23
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	2	Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock		9/12/17 1610	

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0465

Laboratory Sample ID(s):

17I0465-01 thru 17I0465-23

Sample Date(s):

09/12/2017

List RCP Methods Used:

, , SW-846 6010C-D, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8260C, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☐ Yes ☑ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/28/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 5, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0637

Enclosed are results of analyses for samples received by the laboratory on September 14, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 10/5/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0637

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-CO-129	17I0637-01	soil		SW-846 8082A	
WS-AOC12W-CO-130	17I0637-02	soil		SW-846 8082A	

con-test® ANALYTICAL LABORATORY

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT 10/05/17 - Sample IDs updated per client email.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

James M. Georgantas
Project Management Supervisor

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0637

Date Received: 9/14/2017

Field Sample #: WS-AOC12W-CO-129 Sampled: 9/14/2017 10:00

Sample ID: 17I0637-01

Sample Matrix: soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	116	30-150		9/26/17 15:23
Decachlorobiphenyl [2]	97.9	30-150		9/26/17 15:23
Tetrachloro-m-xylene [1]	110	30-150		9/26/17 15:23
Tetrachloro-m-xylene [2]	81.7	30-150		9/26/17 15:23

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0637

Date Received: 9/14/2017

Field Sample #: WS-AOC12W-CO-130 Sampled: 9/14/2017 10:30

Sample ID: 17I0637-02

Sample Matrix: soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	109	30-150		9/26/17 15:35
Decachlorobiphenyl [2]	94.3	30-150		9/26/17 15:35
Tetrachloro-m-xylene [1]	106	30-150		9/26/17 15:35
Tetrachloro-m-xylene [2]	79.2	30-150		9/26/17 15:35

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0637-01 [WS-AOC12W-CO-129]	B186778	2.33	10.0	09/21/17
17I0637-02 [WS-AOC12W-CO-130]	B186778	2.04	10.0	09/21/17

con-test® ANALYTICAL LABORATORY

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186778 - SW-846 3540C										
Blank (B186778-BLK1)				Prepared: 09/21/17 Analyzed: 09/26/17						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.911*		mg/Kg	1.00		91.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.789*		mg/Kg	1.00		78.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.824*		mg/Kg	1.00		82.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.693*		mg/Kg	1.00		69.3	30-150			
LCS (B186778-BS1)				Prepared: 09/21/17 Analyzed: 09/26/17						
Aroclor-1016	0.73	0.10	mg/Kg	1.00		72.9	40-140			
Aroclor-1016 [2C]	0.68	0.10	mg/Kg	1.00		67.8	40-140			
Aroclor-1260	0.68	0.10	mg/Kg	1.00		68.1	40-140			
Aroclor-1260 [2C]	0.66	0.10	mg/Kg	1.00		65.9	40-140			
Surrogate: Decachlorobiphenyl	*0.853*		mg/Kg	1.00		85.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.762*		mg/Kg	1.00		76.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.780*		mg/Kg	1.00		78.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.639*		mg/Kg	1.00		63.9	30-150			
LCS Dup (B186778-BSD1)				Prepared: 09/21/17 Analyzed: 09/26/17						
Aroclor-1016	0.84	0.10	mg/Kg	1.00		84.5	40-140	14.7	30	
Aroclor-1016 [2C]	0.79	0.10	mg/Kg	1.00		79.1	40-140	15.4	30	
Aroclor-1260	0.77	0.10	mg/Kg	1.00		77.0	40-140	12.4	30	
Aroclor-1260 [2C]	0.75	0.10	mg/Kg	1.00		75.1	40-140	13.1	30	
Surrogate: Decachlorobiphenyl	*0.930*		mg/Kg	1.00		93.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.802*		mg/Kg	1.00		80.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.878*		mg/Kg	1.00		87.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.697*		mg/Kg	1.00		69.7	30-150			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B186778-BS1 Date(s) Analyzed 09/26/2017 09/26/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.73	
	2	0.000	0.000	0.000	0.68	7.1
Aroclor-1260	1	0.000	0.000	0.000	0.68	
	2	0.000	0.000	0.000	0.66	3.0

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B186778-BSD1 Date(s) Analyzed 09/26/2017 09/26/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.84	
	2	0.000	0.000	0.000	0.79	7.3
Aroclor-1260	1	0.000	0.000	0.000	0.77	
	2	0.000	0.000	0.000	0.75	2.6

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17I0637

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs (soxhlet)														# of Containers	[2] Preservation Code	[3] Container Code
								I															I	A
1	WS-AOC12W-CO-126	9/14/17	1000		X	O	U	X																
2	WS-AOC12W-CO-127	↓	1030		X	O	U	X																

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
9/14/17	1515
Received by: (signature)	Date/Time:
	9/14/17 1515
Relinquished by: (signature)	Date/Time:
	9/14/17 1540
Received by: (signature)	Date/Time:
	9-14-17 1540
Relinquished by: (signature)	Date/Time:
	9-14-17 1540
Received by: (signature)	Date/Time:
	9/14/17 1830

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

- ○ MCP Analytical Certification Form Required
- ● RCP Analysis Certification Form Required
- ○ MA State DW Form Required

PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) porous media

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 9/14/17 Time 1830

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 2.1
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis ID's T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? N/A
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	2
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0637

Laboratory Sample ID(s):

17I0637-01 thru 17I0637-02

Sample Date(s):

09/14/2017

List RCP Methods Used:

SW-846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/27/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 27, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0637

Enclosed are results of analyses for samples received by the laboratory on September 14, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/27/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0637

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-CO-126	17I0637-01	Product/Solid		SW-846 8082A	
WS-AOC12W-CO-127	17I0637-02	Product/Solid		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0637

Date Received: 9/14/2017

Field Sample #: WS-AOC12W-CO-126 Sampled: 9/14/2017 10:00

Sample ID: 17I0637-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:23	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	116	30-150		9/26/17 15:23
Decachlorobiphenyl [2]	97.9	30-150		9/26/17 15:23
Tetrachloro-m-xylene [1]	110	30-150		9/26/17 15:23
Tetrachloro-m-xylene [2]	81.7	30-150		9/26/17 15:23

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0637

Date Received: 9/14/2017

Field Sample #: WS-AOC12W-CO-127 Sampled: 9/14/2017 10:30

Sample ID: 17I0637-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/21/17	9/26/17 15:35	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	109	30-150		9/26/17 15:35
Decachlorobiphenyl [2]	94.3	30-150		9/26/17 15:35
Tetrachloro-m-xylene [1]	106	30-150		9/26/17 15:35
Tetrachloro-m-xylene [2]	79.2	30-150		9/26/17 15:35

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0637-01 [WS-AOC12W-CO-126]	B186778	2.33	10.0	09/21/17
17I0637-02 [WS-AOC12W-CO-127]	B186778	2.04	10.0	09/21/17

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186778 - SW-846 3540C										
Blank (B186778-BLK1)				Prepared: 09/21/17 Analyzed: 09/26/17						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.911*		mg/Kg	1.00		91.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.789*		mg/Kg	1.00		78.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.824*		mg/Kg	1.00		82.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.693*		mg/Kg	1.00		69.3	30-150			
LCS (B186778-BS1)				Prepared: 09/21/17 Analyzed: 09/26/17						
Aroclor-1016	0.73	0.10	mg/Kg	1.00		72.9	40-140			
Aroclor-1016 [2C]	0.68	0.10	mg/Kg	1.00		67.8	40-140			
Aroclor-1260	0.68	0.10	mg/Kg	1.00		68.1	40-140			
Aroclor-1260 [2C]	0.66	0.10	mg/Kg	1.00		65.9	40-140			
Surrogate: Decachlorobiphenyl	*0.853*		mg/Kg	1.00		85.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.762*		mg/Kg	1.00		76.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.780*		mg/Kg	1.00		78.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.639*		mg/Kg	1.00		63.9	30-150			
LCS Dup (B186778-BSD1)				Prepared: 09/21/17 Analyzed: 09/26/17						
Aroclor-1016	0.84	0.10	mg/Kg	1.00		84.5	40-140	14.7	30	
Aroclor-1016 [2C]	0.79	0.10	mg/Kg	1.00		79.1	40-140	15.4	30	
Aroclor-1260	0.77	0.10	mg/Kg	1.00		77.0	40-140	12.4	30	
Aroclor-1260 [2C]	0.75	0.10	mg/Kg	1.00		75.1	40-140	13.1	30	
Surrogate: Decachlorobiphenyl	*0.930*		mg/Kg	1.00		93.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.802*		mg/Kg	1.00		80.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.878*		mg/Kg	1.00		87.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.697*		mg/Kg	1.00		69.7	30-150			

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FLAG/QUALIFIER SUMMARY

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#	Data exceeded client recommended or regulatory level
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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

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Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17I0637

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs (soxhlet)												# of Containers	[2] Preservation Code	[3] Container Code
								I												1	I	A
1	WS-AOC12W-CO-126	9/14/17	1000		X	O	U	X														
2	WS-AOC12W-CO-127	↓	1030		X	O	U	X														

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) 9/14/17	Date/Time: 1515
Received by: (signature)	Date/Time: 9/14/17 1515
Relinquished by: (signature)	Date/Time: 9/14/17 1540
Received by: (signature)	Date/Time: 9-14-17 1540
Relinquished by: (signature)	Date/Time: 9-14-17 1540
Received by: (signature)	Date/Time: 9/14/17 1830

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

- ○ MCP Analytical Certification Form Required
- ● RCP Analysis Certification Form Required
- ○ MA State DW Form Required

PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) porous media

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 9/14/17 Time 1830

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 2.1
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? N/A
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	2
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0637

Laboratory Sample ID(s):

17I0637-01 thru 17I0637-02

Sample Date(s):

09/14/2017

List RCP Methods Used:

SW-846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/27/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 2, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0642

Enclosed are results of analyses for samples received by the laboratory on September 14, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 10/2/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0642

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-9-SO-41-3R	17I0642-01	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC-9-SO-45-1R	17I0642-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-45-2R	17I0642-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-48-1R	17I0642-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12E-SO-31-2AR	17I0642-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12E-SO-31-2BR	17I0642-06	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC-12W-SO-39-4R	17I0642-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-85-2R	17I0642-08	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC-12W-SO-89-4R	17I0642-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-92-4R	17I0642-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-93-2R	17I0642-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-94-2R	17I0642-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-97-2R	17I0642-13	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC-12W-SO-98-4R	17I0642-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-DUP63	17I0642-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-DUP64	17I0642-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-DUP65	17I0642-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-DUP66	17I0642-18	Soil		SM 2540G	
				SW-846 8082A	

con-test® ANALYTICAL LABORATORY

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SW-846 8082A

Qualifications:

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Aroclor-1260 [2C]
B186775-MS3, B186775-MSD3

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Aroclor-1260
B186775-MS2, B186775-MS3, B186775-MSD2, B186775-MSD3

Aroclor-1260 [2C]
B186775-MS2, B186775-MSD2

SW-846 8270D

Qualifications:

B

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:

Phenanthrene (SIM)
17I0642-01[WS-AOC-9-SO-41-3R], 17I0642-06[WS-AOC-12E-SO-31-2BR], 17I0642-08[WS-AOC-12W-SO-85-2R], 17I0642-13[WS-AOC-12W-SO-97-2R], B186907-BLK1, B186907-BS1, B186907-BSD1, B186907-MS1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-41-3R Sampled: 9/14/2017 11:45

Sample ID: 17I0642-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Acenaphthylene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Anthracene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Benzo(a)anthracene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Benzo(a)pyrene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Benzo(b)fluoranthene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Benzo(g,h,i)perylene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Benzo(k)fluoranthene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Chrysene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Dibenz(a,h)anthracene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Fluoranthene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Fluorene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Indeno(1,2,3-cd)pyrene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
2-Methylnaphthalene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Naphthalene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Phenanthrene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL
Pyrene	ND	0.27	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 15:02	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	69.8	30-130		9/25/17 15:02
2-Fluorobiphenyl	83.4	30-130		9/25/17 15:02
p-Terphenyl-d14	93.6	30-130		9/25/17 15:02

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-41-3R Sampled: 9/14/2017 11:45

Sample ID: 17I0642-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	64.1		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-41-3R Sampled: 9/14/2017 11:45

Sample ID: 17I0642-01

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Phenanthrene (SIM)	0.16	0.050	µg/L	1	B	SW-846 8270D	9/23/17	9/26/17 15:34	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 15:34	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	82.9	30-130		9/26/17 15:34
2-Fluorobiphenyl	83.1	30-130		9/26/17 15:34
p-Terphenyl-d14	70.0	30-130		9/26/17 15:34

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-45-1R Sampled: 9/14/2017 12:30

Sample ID: 17I0642-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:33	KAL
Aroclor-1221 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:33	KAL
Aroclor-1232 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:33	KAL
Aroclor-1242 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:33	KAL
Aroclor-1248 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:33	KAL
Aroclor-1254 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:33	KAL
Aroclor-1260 [1]	1.1	0.42	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:33	KAL
Aroclor-1262 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:33	KAL
Aroclor-1268 [2]	0.66	0.42	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:33	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.0	30-150		9/27/17 10:33
Decachlorobiphenyl [2]	98.7	30-150		9/27/17 10:33
Tetrachloro-m-xylene [1]	79.8	30-150		9/27/17 10:33
Tetrachloro-m-xylene [2]	90.7	30-150		9/27/17 10:33

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-45-1R Sampled: 9/14/2017 12:30

Sample ID: 17I0642-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.9		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-45-1R Sampled: 9/14/2017 12:30

Sample ID: 17I0642-02

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:31	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:31	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:31	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:31	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:31	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:31	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:31	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:31	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:31	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.9	30-150		9/28/17 22:31
Decachlorobiphenyl [2]	79.1	30-150		9/28/17 22:31
Tetrachloro-m-xylene [1]	89.3	30-150		9/28/17 22:31
Tetrachloro-m-xylene [2]	80.8	30-150		9/28/17 22:31

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-45-2R Sampled: 9/14/2017 12:31

Sample ID: 17I0642-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:25	KAL
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:25	KAL
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:25	KAL
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:25	KAL
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:25	KAL
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:25	KAL
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:25	KAL
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:25	KAL
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:25	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.1	30-150		9/26/17 17:25
Decachlorobiphenyl [2]	77.6	30-150		9/26/17 17:25
Tetrachloro-m-xylene [1]	66.2	30-150		9/26/17 17:25
Tetrachloro-m-xylene [2]	66.4	30-150		9/26/17 17:25

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-45-2R Sampled: 9/14/2017 12:31

Sample ID: 17I0642-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.1		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-45-2R Sampled: 9/14/2017 12:31

Sample ID: 17I0642-03

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:44	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:44	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:44	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:44	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:44	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:44	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:44	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:44	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:44	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.2	30-150		9/28/17 22:44
Decachlorobiphenyl [2]	84.1	30-150		9/28/17 22:44
Tetrachloro-m-xylene [1]	94.0	30-150		9/28/17 22:44
Tetrachloro-m-xylene [2]	84.2	30-150		9/28/17 22:44

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-48-1R Sampled: 9/14/2017 10:51

Sample ID: 17I0642-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:43	KAL
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:43	KAL
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:43	KAL
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:43	KAL
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:43	KAL
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:43	KAL
Aroclor-1260 [2]	0.17	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:43	KAL
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:43	KAL
Aroclor-1268 [2]	0.12	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 17:43	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.1	30-150		9/26/17 17:43
Decachlorobiphenyl [2]	81.8	30-150		9/26/17 17:43
Tetrachloro-m-xylene [1]	77.3	30-150		9/26/17 17:43
Tetrachloro-m-xylene [2]	70.9	30-150		9/26/17 17:43

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-48-1R Sampled: 9/14/2017 10:51

Sample ID: 17I0642-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.2		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-48-1R Sampled: 9/14/2017 10:51

Sample ID: 17I0642-04

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:58	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:58	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:58	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:58	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:58	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:58	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:58	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:58	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 22:58	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.3	30-150		9/28/17 22:58
Decachlorobiphenyl [2]	69.8	30-150		9/28/17 22:58
Tetrachloro-m-xylene [1]	83.8	30-150		9/28/17 22:58
Tetrachloro-m-xylene [2]	74.7	30-150		9/28/17 22:58

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12E-SO-31-2AR Sampled: 9/14/2017 12:48

Sample ID: 17I0642-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:01	KAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:01	KAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:01	KAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:01	KAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:01	KAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:01	KAL
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:01	KAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:01	KAL
Aroclor-1268 [1]	0.70	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:01	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.0	30-150		9/26/17 18:01
Decachlorobiphenyl [2]	70.8	30-150		9/26/17 18:01
Tetrachloro-m-xylene [1]	67.8	30-150		9/26/17 18:01
Tetrachloro-m-xylene [2]	64.5	30-150		9/26/17 18:01

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12E-SO-31-2AR Sampled: 9/14/2017 12:48

Sample ID: 17I0642-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.4		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12E-SO-31-2AR Sampled: 9/14/2017 12:48

Sample ID: 17I0642-05

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 23:11	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 23:11	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 23:11	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 23:11	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 23:11	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 23:11	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 23:11	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 23:11	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 23:11	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.8	30-150		9/28/17 23:11
Decachlorobiphenyl [2]	76.5	30-150		9/28/17 23:11
Tetrachloro-m-xylene [1]	87.2	30-150		9/28/17 23:11
Tetrachloro-m-xylene [2]	78.0	30-150		9/28/17 23:11

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12E-SO-31-2BR Sampled: 9/14/2017 12:49

Sample ID: 17I0642-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Benzo(a)anthracene	0.48	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Benzo(a)pyrene	0.39	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Benzo(b)fluoranthene	0.56	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Benzo(g,h,i)perylene	0.26	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Benzo(k)fluoranthene	0.20	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Chrysene	0.61	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Fluoranthene	0.94	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Indeno(1,2,3-cd)pyrene	0.27	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Phenanthrene	0.55	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL
Pyrene	0.96	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:05	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	51.9	30-130		9/22/17 22:05
2-Fluorobiphenyl	62.6	30-130		9/22/17 22:05
p-Terphenyl-d14	81.7	30-130		9/22/17 22:05

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12E-SO-31-2BR Sampled: 9/14/2017 12:49

Sample ID: 17I0642-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.7		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12E-SO-31-2BR Sampled: 9/14/2017 12:49

Sample ID: 17I0642-06

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Phenanthrene (SIM)	0.15	0.050	µg/L	1	B	SW-846 8270D	9/23/17	9/26/17 16:03	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 16:03	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	73.5	30-130		9/26/17 16:03
2-Fluorobiphenyl	75.4	30-130		9/26/17 16:03
p-Terphenyl-d14	63.3	30-130		9/26/17 16:03

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-39-4R Sampled: 9/14/2017 14:58

Sample ID: 17I0642-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:20	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:20	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:20	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:20	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:20	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:20	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:20	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:20	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:20	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	57.9	30-150		9/26/17 18:20
Decachlorobiphenyl [2]	64.0	30-150		9/26/17 18:20
Tetrachloro-m-xylene [1]	67.5	30-150		9/26/17 18:20
Tetrachloro-m-xylene [2]	63.0	30-150		9/26/17 18:20

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-39-4R Sampled: 9/14/2017 14:58

Sample ID: 17I0642-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	73.6		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-39-4R Sampled: 9/14/2017 14:58

Sample ID: 17I0642-07

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 16:55	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 16:55	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 16:55	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 16:55	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 16:55	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 16:55	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 16:55	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 16:55	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 16:55	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.6	30-150		9/29/17 16:55
Decachlorobiphenyl [2]	69.7	30-150		9/29/17 16:55
Tetrachloro-m-xylene [1]	90.5	30-150		9/29/17 16:55
Tetrachloro-m-xylene [2]	84.1	30-150		9/29/17 16:55

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-85-2R Sampled: 9/14/2017 14:47

Sample ID: 17I0642-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Benzo(a)anthracene	0.25	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Benzo(a)pyrene	0.22	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Benzo(b)fluoranthene	0.36	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Chrysene	0.48	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Fluoranthene	0.44	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
2-Methylnaphthalene	0.48	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Naphthalene	0.30	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Phenanthrene	0.68	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL
Pyrene	0.51	0.19	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:29	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	58.4	30-130		9/22/17 22:29
2-Fluorobiphenyl	62.5	30-130		9/22/17 22:29
p-Terphenyl-d14	78.0	30-130		9/22/17 22:29

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-85-2R Sampled: 9/14/2017 14:47

Sample ID: 17I0642-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.9		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-85-2R Sampled: 9/14/2017 14:47

Sample ID: 17I0642-08

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Benzo(b)fluoranthene (SIM)	0.057	0.050	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Phenanthrene (SIM)	1.0	0.050	µg/L	1	B	SW-846 8270D	9/23/17	9/26/17 17:31	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/23/17	9/26/17 17:31	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	70.0	30-130		9/26/17 17:31
2-Fluorobiphenyl	73.4	30-130		9/26/17 17:31
p-Terphenyl-d14	62.9	30-130		9/26/17 17:31

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-89-4R Sampled: 9/14/2017 14:00

Sample ID: 17I0642-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:46	KAL
Aroclor-1221 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:46	KAL
Aroclor-1232 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:46	KAL
Aroclor-1242 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:46	KAL
Aroclor-1248 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:46	KAL
Aroclor-1254 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:46	KAL
Aroclor-1260 [1]	2.9	0.52	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:46	KAL
Aroclor-1262 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:46	KAL
Aroclor-1268 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:46	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.7	30-150		9/27/17 10:46
Decachlorobiphenyl [2]	61.2	30-150		9/27/17 10:46
Tetrachloro-m-xylene [1]	83.7	30-150		9/27/17 10:46
Tetrachloro-m-xylene [2]	81.7	30-150		9/27/17 10:46

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-89-4R Sampled: 9/14/2017 14:00

Sample ID: 17I0642-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.8		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-89-4R Sampled: 9/14/2017 14:00

Sample ID: 17I0642-09

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:13	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:13	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:13	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:13	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:13	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:13	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:13	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:13	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:13	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	98.7	30-150		9/29/17 17:13
Decachlorobiphenyl [2]	88.4	30-150		9/29/17 17:13
Tetrachloro-m-xylene [1]	85.8	30-150		9/29/17 17:13
Tetrachloro-m-xylene [2]	80.8	30-150		9/29/17 17:13

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-92-4R Sampled: 9/14/2017 14:24

Sample ID: 17I0642-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:56	KAL
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:56	KAL
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:56	KAL
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:56	KAL
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:56	KAL
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:56	KAL
Aroclor-1260 [1]	1.1	0.099	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:56	KAL
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:56	KAL
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 18:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	49.5	30-150		9/26/17 18:56
Decachlorobiphenyl [2]	45.7	30-150		9/26/17 18:56
Tetrachloro-m-xylene [1]	61.6	30-150		9/26/17 18:56
Tetrachloro-m-xylene [2]	58.7	30-150		9/26/17 18:56

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-92-4R Sampled: 9/14/2017 14:24

Sample ID: 17I0642-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.3		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-92-4R Sampled: 9/14/2017 14:24

Sample ID: 17I0642-10

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:31	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:31	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:31	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:31	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:31	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:31	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:31	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:31	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 17:31	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		9/29/17 17:31
Decachlorobiphenyl [2]	89.9	30-150		9/29/17 17:31
Tetrachloro-m-xylene [1]	85.4	30-150		9/29/17 17:31
Tetrachloro-m-xylene [2]	78.6	30-150		9/29/17 17:31

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-93-2R Sampled: 9/14/2017 13:17

Sample ID: 17I0642-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:15	KAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:15	KAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:15	KAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:15	KAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:15	KAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:15	KAL
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:15	KAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:15	KAL
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:15	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	65.4	30-150		9/26/17 19:15
Decachlorobiphenyl [2]	61.0	30-150		9/26/17 19:15
Tetrachloro-m-xylene [1]	74.0	30-150		9/26/17 19:15
Tetrachloro-m-xylene [2]	71.3	30-150		9/26/17 19:15

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-93-2R Sampled: 9/14/2017 13:17

Sample ID: 17I0642-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.2		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-93-2R Sampled: 9/14/2017 13:17

Sample ID: 17I0642-11

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:31	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:31	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:31	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:31	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:31	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:31	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:31	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:31	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:31	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.7	30-150		9/29/17 0:31
Decachlorobiphenyl [2]	82.2	30-150		9/29/17 0:31
Tetrachloro-m-xylene [1]	89.8	30-150		9/29/17 0:31
Tetrachloro-m-xylene [2]	81.0	30-150		9/29/17 0:31

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-94-2R Sampled: 9/14/2017 13:26

Sample ID: 17I0642-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:33	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:33	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:33	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:33	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:33	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:33	KAL
Aroclor-1260 [2]	0.27	0.084	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:33	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:33	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:33	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.5	30-150		9/26/17 19:33
Decachlorobiphenyl [2]	78.7	30-150		9/26/17 19:33
Tetrachloro-m-xylene [1]	84.7	30-150		9/26/17 19:33
Tetrachloro-m-xylene [2]	85.0	30-150		9/26/17 19:33

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-94-2R Sampled: 9/14/2017 13:26

Sample ID: 17I0642-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-94-2R Sampled: 9/14/2017 13:26

Sample ID: 17I0642-12

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:45	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:45	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:45	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:45	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:45	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:45	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:45	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:45	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:45	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.4	30-150		9/29/17 0:45
Decachlorobiphenyl [2]	82.0	30-150		9/29/17 0:45
Tetrachloro-m-xylene [1]	92.1	30-150		9/29/17 0:45
Tetrachloro-m-xylene [2]	83.4	30-150		9/29/17 0:45

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-97-2R Sampled: 9/14/2017 13:09

Sample ID: 17I0642-13

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 22:53	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	69.2	30-130		9/22/17 22:53
2-Fluorobiphenyl	84.1	30-130		9/22/17 22:53
p-Terphenyl-d14	98.2	30-130		9/22/17 22:53

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-97-2R Sampled: 9/14/2017 13:09

Sample ID: 17I0642-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.6		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-97-2R Sampled: 9/14/2017 13:09

Sample ID: 17I0642-13

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.28	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Acenaphthylene (SIM)	ND	0.28	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Anthracene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Benzo(a)anthracene (SIM)	ND	0.047	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Benzo(a)pyrene (SIM)	ND	0.094	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Benzo(b)fluoranthene (SIM)	ND	0.047	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.47	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Benzo(k)fluoranthene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Chrysene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Fluoranthene (SIM)	ND	0.47	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Fluorene (SIM)	ND	0.94	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.19	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
2-Methylnaphthalene (SIM)	ND	0.94	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Naphthalene (SIM)	ND	0.94	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Phenanthrene (SIM)	0.072	0.047	µg/L	1	B	SW-846 8270D	9/23/17	9/26/17 18:00	CJM
Pyrene (SIM)	ND	0.94	µg/L	1		SW-846 8270D	9/23/17	9/26/17 18:00	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	69.4	30-130		9/26/17 18:00
2-Fluorobiphenyl	74.3	30-130		9/26/17 18:00
p-Terphenyl-d14	69.0	30-130		9/26/17 18:00

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-98-4R Sampled: 9/14/2017 13:46

Sample ID: 17I0642-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:51	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:51	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:51	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:51	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:51	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:51	KAL
Aroclor-1260 [1]	0.66	0.091	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:51	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:51	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 19:51	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	57.5	30-150		9/26/17 19:51
Decachlorobiphenyl [2]	56.9	30-150		9/26/17 19:51
Tetrachloro-m-xylene [1]	70.3	30-150		9/26/17 19:51
Tetrachloro-m-xylene [2]	66.2	30-150		9/26/17 19:51

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-98-4R Sampled: 9/14/2017 13:46

Sample ID: 17I0642-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.4		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-SO-98-4R Sampled: 9/14/2017 13:46

Sample ID: 17I0642-14

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:58	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:58	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:58	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:58	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:58	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:58	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:58	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:58	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 0:58	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.8	30-150		9/29/17 0:58
Decachlorobiphenyl [2]	66.6	30-150		9/29/17 0:58
Tetrachloro-m-xylene [1]	88.6	30-150		9/29/17 0:58
Tetrachloro-m-xylene [2]	77.1	30-150		9/29/17 0:58

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-DUP63 Sampled: 9/14/2017 00:00

Sample ID: 17I0642-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 20:59	KAL
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 20:59	KAL
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 20:59	KAL
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 20:59	KAL
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 20:59	KAL
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 20:59	KAL
Aroclor-1260 [2]	0.11	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 20:59	KAL
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 20:59	KAL
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 20:59	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.8	30-150		9/26/17 20:59
Decachlorobiphenyl [2]	79.4	30-150		9/26/17 20:59
Tetrachloro-m-xylene [1]	75.7	30-150		9/26/17 20:59
Tetrachloro-m-xylene [2]	73.7	30-150		9/26/17 20:59

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-DUP63 Sampled: 9/14/2017 00:00

Sample ID: 17I0642-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.7		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-DUP63 Sampled: 9/14/2017 00:00

Sample ID: 17I0642-15

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:11	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:11	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:11	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:11	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:11	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:11	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:11	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:11	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:11	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.2	30-150		9/29/17 1:11
Decachlorobiphenyl [2]	74.7	30-150		9/29/17 1:11
Tetrachloro-m-xylene [1]	87.8	30-150		9/29/17 1:11
Tetrachloro-m-xylene [2]	78.5	30-150		9/29/17 1:11

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-DUP64 Sampled: 9/14/2017 00:00

Sample ID: 17I0642-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:17	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:17	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:17	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:17	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:17	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:17	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:17	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:17	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:17	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	39.9	30-150		9/26/17 21:17
Decachlorobiphenyl [2]	39.4	30-150		9/26/17 21:17
Tetrachloro-m-xylene [1]	39.3	30-150		9/26/17 21:17
Tetrachloro-m-xylene [2]	39.7	30-150		9/26/17 21:17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-DUP64 Sampled: 9/14/2017 00:00

Sample ID: 17I0642-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.0		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-DUP64 Sampled: 9/14/2017 00:00

Sample ID: 17I0642-16

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:25	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:25	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:25	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:25	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:25	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:25	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:25	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:25	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:25	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.9	30-150		9/29/17 1:25
Decachlorobiphenyl [2]	82.6	30-150		9/29/17 1:25
Tetrachloro-m-xylene [1]	85.4	30-150		9/29/17 1:25
Tetrachloro-m-xylene [2]	77.0	30-150		9/29/17 1:25

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-DUP65 Sampled: 9/14/2017 00:00

Sample ID: 17I0642-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:36	KAL
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:36	KAL
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:36	KAL
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:36	KAL
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:36	KAL
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:36	KAL
Aroclor-1260 [2]	0.34	0.083	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:36	KAL
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:36	KAL
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/21/17	9/26/17 21:36	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.5	30-150		9/26/17 21:36
Decachlorobiphenyl [2]	85.8	30-150		9/26/17 21:36
Tetrachloro-m-xylene [1]	84.2	30-150		9/26/17 21:36
Tetrachloro-m-xylene [2]	82.5	30-150		9/26/17 21:36

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-DUP65 Sampled: 9/14/2017 00:00

Sample ID: 17I0642-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.7		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-DUP65 Sampled: 9/14/2017 00:00

Sample ID: 17I0642-17

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:38	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:38	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:38	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:38	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:38	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:38	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:38	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:38	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:38	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		9/29/17 1:38
Decachlorobiphenyl [2]	86.3	30-150		9/29/17 1:38
Tetrachloro-m-xylene [1]	91.9	30-150		9/29/17 1:38
Tetrachloro-m-xylene [2]	82.6	30-150		9/29/17 1:38

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-DUP66 Sampled: 9/14/2017 00:00

Sample ID: 17I0642-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:59	KAL
Aroclor-1221 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:59	KAL
Aroclor-1232 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:59	KAL
Aroclor-1242 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:59	KAL
Aroclor-1248 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:59	KAL
Aroclor-1254 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:59	KAL
Aroclor-1260 [1]	2.0	0.47	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:59	KAL
Aroclor-1262 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:59	KAL
Aroclor-1268 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	9/21/17	9/27/17 10:59	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.8	30-150		9/27/17 10:59
Decachlorobiphenyl [2]	77.5	30-150		9/27/17 10:59
Tetrachloro-m-xylene [1]	90.1	30-150		9/27/17 10:59
Tetrachloro-m-xylene [2]	90.2	30-150		9/27/17 10:59

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-DUP66 Sampled: 9/14/2017 00:00

Sample ID: 17I0642-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0642

Date Received: 9/14/2017

Field Sample #: WS-AOC-12W-DUP66 Sampled: 9/14/2017 00:00

Sample ID: 17I0642-18

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:52	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:52	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:52	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:52	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:52	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:52	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:52	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:52	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/29/17 1:52	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	103	30-150		9/29/17 1:52
Decachlorobiphenyl [2]	87.8	30-150		9/29/17 1:52
Tetrachloro-m-xylene [1]	95.1	30-150		9/29/17 1:52
Tetrachloro-m-xylene [2]	82.4	30-150		9/29/17 1:52

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0642-01 [WS-AOC-9-SO-41-3R]	B186579	09/19/17
17I0642-02 [WS-AOC-9-SO-45-1R]	B186579	09/19/17
17I0642-03 [WS-AOC-9-SO-45-2R]	B186579	09/19/17
17I0642-04 [WS-AOC-9-SO-48-1R]	B186579	09/19/17
17I0642-05 [WS-AOC-12E-SO-31-2AR]	B186579	09/19/17
17I0642-06 [WS-AOC-12E-SO-31-2BR]	B186579	09/19/17
17I0642-07 [WS-AOC-12W-SO-39-4R]	B186579	09/19/17
17I0642-08 [WS-AOC-12W-SO-85-2R]	B186579	09/19/17
17I0642-09 [WS-AOC-12W-SO-89-4R]	B186579	09/19/17
17I0642-10 [WS-AOC-12W-SO-92-4R]	B186579	09/19/17
17I0642-11 [WS-AOC-12W-SO-93-2R]	B186579	09/19/17
17I0642-12 [WS-AOC-12W-SO-94-2R]	B186579	09/19/17
17I0642-13 [WS-AOC-12W-SO-97-2R]	B186579	09/19/17
17I0642-14 [WS-AOC-12W-SO-98-4R]	B186579	09/19/17
17I0642-15 [WS-AOC-9-SO-DUP63]	B186579	09/19/17
17I0642-16 [WS-AOC-12W-DUP64]	B186579	09/19/17
17I0642-17 [WS-AOC-12W-DUP65]	B186579	09/19/17
17I0642-18 [WS-AOC-12W-DUP66]	B186579	09/19/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0642-02 [WS-AOC-9-SO-45-1R]	B186775	10.2	10.0	09/21/17
17I0642-03 [WS-AOC-9-SO-45-2R]	B186775	10.1	10.0	09/21/17
17I0642-04 [WS-AOC-9-SO-48-1R]	B186775	10.3	10.0	09/21/17
17I0642-05 [WS-AOC-12E-SO-31-2AR]	B186775	10.3	10.0	09/21/17
17I0642-07 [WS-AOC-12W-SO-39-4R]	B186775	10.1	10.0	09/21/17
17I0642-09 [WS-AOC-12W-SO-89-4R]	B186775	10.1	10.0	09/21/17
17I0642-10 [WS-AOC-12W-SO-92-4R]	B186775	10.3	10.0	09/21/17
17I0642-11 [WS-AOC-12W-SO-93-2R]	B186775	10.3	10.0	09/21/17
17I0642-12 [WS-AOC-12W-SO-94-2R]	B186775	10.1	10.0	09/21/17
17I0642-14 [WS-AOC-12W-SO-98-4R]	B186775	10.3	10.0	09/21/17
17I0642-15 [WS-AOC-9-SO-DUP63]	B186775	10.3	10.0	09/21/17
17I0642-16 [WS-AOC-12W-DUP64]	B186775	10.3	10.0	09/21/17
17I0642-17 [WS-AOC-12W-DUP65]	B186775	10.1	10.0	09/21/17
17I0642-18 [WS-AOC-12W-DUP66]	B186775	10.1	10.0	09/21/17

Prep Method: SW-846 3510C-SW-846 8082A **Leachates were extracted on 9/21/2017 per SW-846 1312 in Batch B186758**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0642-02 [WS-AOC-9-SO-45-1R]	B186875	500	5.00	09/22/17
17I0642-03 [WS-AOC-9-SO-45-2R]	B186875	500	5.00	09/22/17
17I0642-04 [WS-AOC-9-SO-48-1R]	B186875	500	5.00	09/22/17
17I0642-05 [WS-AOC-12E-SO-31-2AR]	B186875	500	5.00	09/22/17
17I0642-07 [WS-AOC-12W-SO-39-4R]	B186875	500	5.00	09/22/17
17I0642-09 [WS-AOC-12W-SO-89-4R]	B186875	500	5.00	09/22/17
17I0642-10 [WS-AOC-12W-SO-92-4R]	B186875	500	5.00	09/22/17
17I0642-11 [WS-AOC-12W-SO-93-2R]	B186875	500	5.00	09/22/17
17I0642-12 [WS-AOC-12W-SO-94-2R]	B186875	500	5.00	09/22/17
17I0642-14 [WS-AOC-12W-SO-98-4R]	B186875	500	5.00	09/22/17
17I0642-15 [WS-AOC-9-SO-DUP63]	B186875	500	5.00	09/22/17
17I0642-16 [WS-AOC-12W-DUP64]	B186875	500	5.00	09/22/17
17I0642-17 [WS-AOC-12W-DUP65]	B186875	500	5.00	09/22/17

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Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8082A **Leachates were extracted on 9/21/2017 per SW-846 1312 in Batch B186758**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0642-18 [WS-AOC-12W-DUP66]	B186875	500	5.00	09/22/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0642-01 [WS-AOC-9-SO-41-3R]	B186760	30.0	1.00	09/21/17
17I0642-06 [WS-AOC-12E-SO-31-2BR]	B186760	30.0	1.00	09/21/17
17I0642-08 [WS-AOC-12W-SO-85-2R]	B186760	30.1	1.00	09/21/17
17I0642-13 [WS-AOC-12W-SO-97-2R]	B186760	30.0	1.00	09/21/17

Prep Method: SW-846 3510C-SW-846 8270D **Leachates were extracted on 9/21/2017 per SW-846 1312 in Batch B186758**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0642-01 [WS-AOC-9-SO-41-3R]	B186907	1000	1.00	09/23/17
17I0642-06 [WS-AOC-12E-SO-31-2BR]	B186907	1000	1.00	09/23/17
17I0642-08 [WS-AOC-12W-SO-85-2R]	B186907	1000	1.00	09/23/17
17I0642-13 [WS-AOC-12W-SO-97-2R]	B186907	960	0.900	09/23/17

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186760 - SW-846 3546										
Blank (B186760-BLK1)				Prepared: 09/21/17 Analyzed: 09/22/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*1.91*		mg/Kg wet	3.33		57.4	30-130			
Surrogate: 2-Fluorobiphenyl	*2.13*		mg/Kg wet	3.33		63.8	30-130			
Surrogate: p-Terphenyl-d14	*2.71*		mg/Kg wet	3.33		81.4	30-130			
LCS (B186760-BS1)				Prepared: 09/21/17 Analyzed: 09/22/17						
Acenaphthene	0.883	0.17	mg/Kg wet	1.67		53.0	40-140			
Acenaphthylene	0.902	0.17	mg/Kg wet	1.67		54.1	40-140			
Anthracene	0.988	0.17	mg/Kg wet	1.67		59.3	40-140			
Benzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140			
Benzo(a)pyrene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140			
Benzo(b)fluoranthene	0.984	0.17	mg/Kg wet	1.67		59.0	40-140			
Benzo(g,h,i)perylene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Benzo(k)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			
Chrysene	0.992	0.17	mg/Kg wet	1.67		59.5	40-140			
Dibenz(a,h)anthracene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140			
Fluoranthene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140			
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			
Indeno(1,2,3-cd)pyrene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140			
2-Methylnaphthalene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Naphthalene	0.912	0.17	mg/Kg wet	1.67		54.7	40-140			
Phenanthrene	1.00	0.17	mg/Kg wet	1.67		60.2	40-140			
Pyrene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140			
Surrogate: Nitrobenzene-d5	*2.07*		mg/Kg wet	3.33		62.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.40*		mg/Kg wet	3.33		72.0	30-130			
Surrogate: p-Terphenyl-d14	*2.73*		mg/Kg wet	3.33		81.9	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186760 - SW-846 3546										
LCS Dup (B186760-BSD1)				Prepared: 09/21/17 Analyzed: 09/22/17						
Acenaphthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140	8.53	30	
Acenaphthylene	0.966	0.17	mg/Kg wet	1.67		58.0	40-140	6.89	30	
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140	9.11	30	
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		68.1	40-140	7.03	30	
Benzo(a)pyrene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140	5.89	30	
Benzo(b)fluoranthene	1.08	0.17	mg/Kg wet	1.67		64.7	40-140	9.12	30	
Benzo(g,h,i)perylene	1.17	0.17	mg/Kg wet	1.67		70.2	40-140	7.72	30	
Benzo(k)fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.4	40-140	6.44	30	
Chrysene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140	8.50	30	
Dibenz(a,h)anthracene	1.17	0.17	mg/Kg wet	1.67		70.4	40-140	9.87	30	
Fluoranthene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	7.89	30	
Fluorene	1.09	0.17	mg/Kg wet	1.67		65.2	40-140	7.65	30	
Indeno(1,2,3-cd)pyrene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140	5.67	30	
2-Methylnaphthalene	1.12	0.17	mg/Kg wet	1.67		67.0	40-140	8.68	30	
Naphthalene	0.987	0.17	mg/Kg wet	1.67		59.2	40-140	7.90	30	
Phenanthrene	1.10	0.17	mg/Kg wet	1.67		65.9	40-140	9.00	30	
Pyrene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140	7.81	30	
Surrogate: Nitrobenzene-d5	*2.24*		mg/Kg wet	3.33		67.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.60*		mg/Kg wet	3.33		77.9	30-130			
Surrogate: p-Terphenyl-d14	*2.95*		mg/Kg wet	3.33		88.5	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186775 - SW-846 3540C										
Blank (B186775-BLK1)				Prepared: 09/21/17 Analyzed: 09/26/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.147*		mg/Kg wet	0.200		73.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.161*		mg/Kg wet	0.200		80.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.150*		mg/Kg wet	0.200		75.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.131*		mg/Kg wet	0.200		65.6	30-150			
LCS (B186775-BS1)				Prepared: 09/21/17 Analyzed: 09/26/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		82.2	40-140			
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		75.5	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.1	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		74.6	40-140			
Surrogate: Decachlorobiphenyl	*0.157*		mg/Kg wet	0.200		78.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.169*		mg/Kg wet	0.200		84.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.165*		mg/Kg wet	0.200		82.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.146*		mg/Kg wet	0.200		73.1	30-150			
LCS Dup (B186775-BSD1)				Prepared: 09/21/17 Analyzed: 09/26/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		81.4	40-140	1.03	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		75.8	40-140	0.328	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		77.8	40-140	0.285	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		74.3	40-140	0.369	30	
Surrogate: Decachlorobiphenyl	*0.158*		mg/Kg wet	0.200		79.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.170*		mg/Kg wet	0.200		84.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.163*		mg/Kg wet	0.200		81.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.145*		mg/Kg wet	0.200		72.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B186775 - SW-846 3540C											
Matrix Spike (B186775-MS1)		**Source: 17I0642-07**		Prepared: 09/21/17 Analyzed: 09/26/17							
Aroclor-1016	0.17	0.11	mg/Kg dry	0.266	ND	63.4		40-140			
Aroclor-1016 [2C]	0.16	0.11	mg/Kg dry	0.266	ND	60.3		40-140			
Aroclor-1260	0.17	0.11	mg/Kg dry	0.266	ND	64.7		40-140			
Aroclor-1260 [2C]	0.17	0.11	mg/Kg dry	0.266	ND	65.3		40-140			
Surrogate: Decachlorobiphenyl	*0.134*		mg/Kg dry	0.266		50.2		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.137*		mg/Kg dry	0.266		51.3		30-150			
Surrogate: Tetrachloro-m-xylene	*0.154*		mg/Kg dry	0.266		57.6		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.146*		mg/Kg dry	0.266		54.7		30-150			
Matrix Spike (B186775-MS2)		**Source: 17I0642-09**		Prepared: 09/21/17 Analyzed: 09/26/17							
Aroclor-1016	0.14	0.10	mg/Kg dry	0.258	ND	54.0		40-140			
Aroclor-1016 [2C]	0.13	0.10	mg/Kg dry	0.258	ND	52.3		40-140			
Aroclor-1260	0.60	0.10	mg/Kg dry	0.258	2.9	**-893**	*	40-140			MS-19
Aroclor-1260 [2C]	0.52	0.10	mg/Kg dry	0.258	2.4	**-723**	*	40-140			MS-19
Surrogate: Decachlorobiphenyl	*0.102*		mg/Kg dry	0.258		39.6		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.0998*		mg/Kg dry	0.258		38.7		30-150			
Surrogate: Tetrachloro-m-xylene	*0.126*		mg/Kg dry	0.258		48.7		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.120*		mg/Kg dry	0.258		46.4		30-150			
Matrix Spike (B186775-MS3)		**Source: 17I0642-10**		Prepared: 09/21/17 Analyzed: 09/26/17							
Aroclor-1016	0.12	0.10	mg/Kg dry	0.253	ND	47.9		40-140			
Aroclor-1016 [2C]	0.10	0.10	mg/Kg dry	0.253	ND	40.0		40-140			
Aroclor-1260	0.88	0.10	mg/Kg dry	0.253	1.1	**-94.1**	*	40-140			MS-19
Aroclor-1260 [2C]	0.71	0.10	mg/Kg dry	0.253	0.90	**-74.9**	*	40-140			MS-09
Surrogate: Decachlorobiphenyl	*0.0811*		mg/Kg dry	0.253		32.1		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.107*		mg/Kg dry	0.253		42.4		30-150			
Surrogate: Tetrachloro-m-xylene	*0.103*		mg/Kg dry	0.253		40.9		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0969*		mg/Kg dry	0.253		38.3		30-150			
Matrix Spike Dup (B186775-MSD1)		**Source: 17I0642-07**		Prepared: 09/21/17 Analyzed: 09/26/17							
Aroclor-1016	0.15	0.10	mg/Kg dry	0.256	ND	58.3		40-140	12.2	50	
Aroclor-1016 [2C]	0.14	0.10	mg/Kg dry	0.256	ND	54.7		40-140	13.6	50	
Aroclor-1260	0.16	0.10	mg/Kg dry	0.256	ND	62.1		40-140	7.89	50	
Aroclor-1260 [2C]	0.15	0.10	mg/Kg dry	0.256	ND	60.3		40-140	11.9	50	
Surrogate: Decachlorobiphenyl	*0.132*		mg/Kg dry	0.256		51.4		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.127*		mg/Kg dry	0.256		49.5		30-150			
Surrogate: Tetrachloro-m-xylene	*0.139*		mg/Kg dry	0.256		54.3		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.129*		mg/Kg dry	0.256		50.3		30-150			
Matrix Spike Dup (B186775-MSD2)		**Source: 17I0642-09**		Prepared: 09/21/17 Analyzed: 09/26/17							
Aroclor-1016	0.16	0.098	mg/Kg dry	0.246	ND	63.4		40-140		50	
Aroclor-1016 [2C]	0.14	0.098	mg/Kg dry	0.246	ND	55.6		40-140		50	
Aroclor-1260	0.72	0.098	mg/Kg dry	0.246	2.9	**-888**	*	40-140	18.2	50	MS-19
Aroclor-1260 [2C]	0.56	0.098	mg/Kg dry	0.246	2.4	**-743**	*	40-140	7.44	50	MS-19
Surrogate: Decachlorobiphenyl	*0.125*		mg/Kg dry	0.246		51.1		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.105*		mg/Kg dry	0.246		42.9		30-150			
Surrogate: Tetrachloro-m-xylene	*0.150*		mg/Kg dry	0.246		61.0		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.134*		mg/Kg dry	0.246		54.3		30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B186775 - SW-846 3540C											
Matrix Spike Dup (B186775-MSD3)		**Source: 17I0642-10**		Prepared: 09/21/17 Analyzed: 09/26/17							
Aroclor-1016	0.12	0.10	mg/Kg dry	0.250	ND	48.9		40-140	1.14	50	
Aroclor-1016 [2C]	0.11	0.10	mg/Kg dry	0.250	ND	43.2		40-140	6.55	50	
Aroclor-1260	1.1	0.10	mg/Kg dry	0.250	1.1	**-17.5**	*	40-140	19.9	50	MS-19
Aroclor-1260 [2C]	0.84	0.10	mg/Kg dry	0.250	0.90	**-24.0**	*	40-140	16.7	50	MS-09
Surrogate: Decachlorobiphenyl	*0.0848*		mg/Kg dry	0.250		33.8		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.0986*		mg/Kg dry	0.250		39.4		30-150			
Surrogate: Tetrachloro-m-xylene	*0.109*		mg/Kg dry	0.250		43.7		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.100*		mg/Kg dry	0.250		40.0		30-150			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186579 - % Solids										
Duplicate (B186579-DUP2)		**Source: 17I0642-07**		Prepared & Analyzed: 09/19/17						
% Solids	76.5		% Wt		73.6			3.86	20	
Duplicate (B186579-DUP3)		**Source: 17I0642-09**		Prepared & Analyzed: 09/19/17						
% Solids	73.9		% Wt		76.8			3.85	20	
Duplicate (B186579-DUP4)		**Source: 17I0642-10**		Prepared & Analyzed: 09/19/17						
% Solids	71.7		% Wt		78.3			8.80	20	

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QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186907 - SW-846 3510C										
Blank (B186907-BLK1)				Prepared: 09/23/17 Analyzed: 09/26/17						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.30	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L							
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	0.089	0.050	µg/L							B
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*76.9*		µg/L	100		76.9	30-130			
Surrogate: 2-Fluorobiphenyl	*82.2*		µg/L	100		82.2	30-130			
Surrogate: p-Terphenyl-d14	*70.0*		µg/L	100		70.0	30-130			
LCS (B186907-BS1)				Prepared: 09/23/17 Analyzed: 09/26/17						
Acenaphthene (SIM)	41.3	7.5	µg/L	50.0		82.6	40-140			
Acenaphthylene (SIM)	40.2	7.5	µg/L	50.0		80.5	40-140			
Anthracene (SIM)	43.1	5.0	µg/L	50.0		86.2	40-140			
Benzo(a)anthracene (SIM)	43.6	1.2	µg/L	50.0		87.1	40-140			
Benzo(a)pyrene (SIM)	44.6	2.5	µg/L	50.0		89.3	40-140			
Benzo(b)fluoranthene (SIM)	45.1	1.2	µg/L	50.0		90.2	40-140			
Benzo(g,h,i)perylene (SIM)	44.8	12	µg/L	50.0		89.6	40-140			
Benzo(k)fluoranthene (SIM)	43.5	5.0	µg/L	50.0		87.0	40-140			
Chrysene (SIM)	44.0	5.0	µg/L	50.0		88.1	40-140			
Dibenz(a,h)anthracene (SIM)	41.8	5.0	µg/L	50.0		83.5	40-140			
Fluoranthene (SIM)	43.8	12	µg/L	50.0		87.7	40-140			
Fluorene (SIM)	41.6	25	µg/L	50.0		83.3	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	43.8	5.0	µg/L	50.0		87.5	40-140			
2-Methylnaphthalene (SIM)	38.5	25	µg/L	50.0		77.0	40-140			
Naphthalene (SIM)	37.1	25	µg/L	50.0		74.2	40-140			
Phenanthrene (SIM)	42.0	1.2	µg/L	50.0		84.0	40-140			B
Pyrene (SIM)	44.0	25	µg/L	50.0		88.0	40-140			
Surrogate: Nitrobenzene-d5	*89.5*		µg/L	100		89.5	30-130			
Surrogate: 2-Fluorobiphenyl	*89.2*		µg/L	100		89.2	30-130			
Surrogate: p-Terphenyl-d14	*86.8*		µg/L	100		86.8	30-130			

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QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B186907 - SW-846 3510C											
LCS Dup (B186907-BSD1)				Prepared: 09/23/17 Analyzed: 09/26/17							
Acenaphthene (SIM)	44.9	7.5	µg/L	50.0		89.8	40-140	8.41	20		
Acenaphthylene (SIM)	43.5	7.5	µg/L	50.0		87.0	40-140	7.82	20		
Anthracene (SIM)	46.5	5.0	µg/L	50.0		93.0	40-140	7.70	20		
Benzo(a)anthracene (SIM)	47.4	1.2	µg/L	50.0		94.7	40-140	8.36	20		
Benzo(a)pyrene (SIM)	48.4	2.5	µg/L	50.0		96.8	40-140	8.11	20		
Benzo(b)fluoranthene (SIM)	49.3	1.2	µg/L	50.0		98.6	40-140	8.90	20		
Benzo(g,h,i)perylene (SIM)	47.8	12	µg/L	50.0		95.6	40-140	6.59	20		
Benzo(k)fluoranthene (SIM)	47.3	5.0	µg/L	50.0		94.6	40-140	8.37	20		
Chrysene (SIM)	47.8	5.0	µg/L	50.0		95.6	40-140	8.22	20		
Dibenz(a,h)anthracene (SIM)	44.2	5.0	µg/L	50.0		88.5	40-140	5.81	20		
Fluoranthene (SIM)	47.4	12	µg/L	50.0		94.9	40-140	7.89	20		
Fluorene (SIM)	45.4	25	µg/L	50.0		90.9	40-140	8.73	20		
Indeno(1,2,3-cd)pyrene (SIM)	46.7	5.0	µg/L	50.0		93.4	40-140	6.52	20		‡
2-Methylnaphthalene (SIM)	41.2	25	µg/L	50.0		82.4	40-140	6.90	20		
Naphthalene (SIM)	39.4	25	µg/L	50.0		78.9	40-140	6.07	20		
Phenanthrene (SIM)	45.4	1.2	µg/L	50.0		90.7	40-140	7.73	20	B	
Pyrene (SIM)	48.2	25	µg/L	50.0		96.4	40-140	9.05	20		
Surrogate: Nitrobenzene-d5	*94.0*		µg/L	100		94.0	30-130				
Surrogate: 2-Fluorobiphenyl	*95.5*		µg/L	100		95.5	30-130				
Surrogate: p-Terphenyl-d14	*85.7*		µg/L	100		85.7	30-130				
Matrix Spike (B186907-MS1)		**Source: 17I0642-06**		Prepared: 09/23/17 Analyzed: 09/26/17							
Acenaphthene (SIM)	49.4	7.5	µg/L	55.6	0.0680	88.7	40-140				
Acenaphthylene (SIM)	47.8	7.5	µg/L	55.6	0.00900	86.1	40-140				
Anthracene (SIM)	50.5	5.0	µg/L	55.6	0.0180	90.9	40-140				
Benzo(a)anthracene (SIM)	50.7	1.2	µg/L	55.6	0.0160	91.2	40-140				
Benzo(a)pyrene (SIM)	53.0	2.5	µg/L	55.6	0.0120	95.4	40-140				
Benzo(b)fluoranthene (SIM)	53.6	1.2	µg/L	55.6	0.0160	96.5	40-140				
Benzo(g,h,i)perylene (SIM)	51.9	12	µg/L	55.6	ND	93.4	40-140				
Benzo(k)fluoranthene (SIM)	51.8	5.0	µg/L	55.6	0.0110	93.1	40-140				
Chrysene (SIM)	50.9	5.0	µg/L	55.6	0.0150	91.6	40-140				
Dibenz(a,h)anthracene (SIM)	49.5	5.0	µg/L	55.6	0.00400	89.0	40-140				
Fluoranthene (SIM)	51.4	12	µg/L	55.6	0.0340	92.4	40-140				
Fluorene (SIM)	49.4	25	µg/L	55.6	0.0620	88.8	40-140				
Indeno(1,2,3-cd)pyrene (SIM)	51.3	5.0	µg/L	55.6	0.00600	92.3	40-140				
2-Methylnaphthalene (SIM)	46.4	25	µg/L	55.6	0.0610	83.4	40-140				
Naphthalene (SIM)	45.8	25	µg/L	55.6	0.206	82.1	40-140				
Phenanthrene (SIM)	49.9	1.2	µg/L	55.6	0.151	89.6	40-140			B	
Pyrene (SIM)	51.9	25	µg/L	55.6	0.0290	93.4	40-140				
Surrogate: Nitrobenzene-d5	*100*		µg/L	111		90.0	30-130				
Surrogate: 2-Fluorobiphenyl	*107*		µg/L	111		96.1	30-130				
Surrogate: p-Terphenyl-d14	*106*		µg/L	111		95.2	30-130				

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QUALITY CONTROL

SPLP - Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186875 - SW-846 3510C										
Blank (B186875-BLK1)				Prepared: 09/22/17 Analyzed: 09/28/17						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.33*		µg/L	2.00		66.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.16*		µg/L	2.00		58.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.96*		µg/L	2.00		98.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.77*		µg/L	2.00		88.6	30-150			
LCS (B186875-BS1)				Prepared: 09/22/17 Analyzed: 09/28/17						
Aroclor-1016	0.56	0.20	µg/L	0.500		111	40-140			
Aroclor-1016 [2C]	0.59	0.20	µg/L	0.500		119	40-140			
Aroclor-1260	0.49	0.20	µg/L	0.500		97.3	40-140			
Aroclor-1260 [2C]	0.50	0.20	µg/L	0.500		99.6	40-140			
Surrogate: Decachlorobiphenyl	*1.54*		µg/L	2.00		76.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.33*		µg/L	2.00		66.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.83*		µg/L	2.00		91.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.65*		µg/L	2.00		82.7	30-150			
LCS Dup (B186875-BSD1)				Prepared: 09/22/17 Analyzed: 09/28/17						
Aroclor-1016	0.52	0.20	µg/L	0.500		104	40-140	7.17	20	
Aroclor-1016 [2C]	0.52	0.20	µg/L	0.500		104	40-140	13.6	20	
Aroclor-1260	0.49	0.20	µg/L	0.500		98.3	40-140	0.986	20	
Aroclor-1260 [2C]	0.44	0.20	µg/L	0.500		88.4	40-140	12.0	20	
Surrogate: Decachlorobiphenyl	*1.70*		µg/L	2.00		85.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.47*		µg/L	2.00		73.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.79*		µg/L	2.00		89.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.62*		µg/L	2.00		80.8	30-150			

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QUALITY CONTROL

SPLP - Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186875 - SW-846 3510C										
Matrix Spike (B186875-MS1)		**Source: 17I0642-02**		Prepared: 09/22/17 Analyzed: 09/29/17						
Aroclor-1016	0.51	0.20	µg/L	0.500	ND	102	40-140			
Aroclor-1016 [2C]	0.52	0.20	µg/L	0.500	ND	103	40-140			
Aroclor-1260	0.49	0.20	µg/L	0.500	ND	98.2	40-140			
Aroclor-1260 [2C]	0.44	0.20	µg/L	0.500	ND	87.4	40-140			
Surrogate: Decachlorobiphenyl	*1.94*		µg/L	2.00		97.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.65*		µg/L	2.00		82.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.78*		µg/L	2.00		88.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.59*		µg/L	2.00		79.5	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-45-1R

Lab Sample ID: 17I0642-02

Date(s) Analyzed: 09/27/2017 09/27/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.1	
	2	0.000	-0.030	0.030	1.1	0.0
Aroclor-1268	1	0.000	-0.030	0.030	0.57	
	2	0.000	-0.030	0.030	0.66	14.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-48-1R

Lab Sample ID: 17I0642-04

Date(s) Analyzed: 09/26/2017 09/26/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0
Aroclor-1268	1	0.000	-0.030	0.030	0.11	
	2	0.000	-0.030	0.030	0.12	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12E-SO-31-2AR

Lab Sample ID: 17I0642-05

Date(s) Analyzed: 09/26/2017 09/26/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1268	1	0.000	-0.030	0.030	0.70	
	2	0.000	-0.030	0.030	0.67	4.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-SO-89-4R

Lab Sample ID: 17I0642-09

Date(s) Analyzed: 09/27/2017 09/27/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	2.9	
	2	0.000	-0.030	0.030	2.4	18.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-SO-92-4R

Lab Sample ID: 17I0642-10

Date(s) Analyzed: 09/26/2017 09/26/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.1	
	2	0.000	-0.030	0.030	0.90	20.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-SO-94-2R

Lab Sample ID: 17I0642-12

Date(s) Analyzed: 09/26/2017 09/26/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.23	
	2	0.000	-0.030	0.030	0.27	16.0

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-SO-98-4R

Lab Sample ID: 17I0642-14

Date(s) Analyzed: 09/26/2017 09/26/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.66	
	2	0.000	-0.030	0.030	0.58	12.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-DUP63

Lab Sample ID: 17I0642-15

Date(s) Analyzed: 09/26/2017 09/26/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.092	
	2	0.000	-0.030	0.030	0.11	17.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-DUP65

Lab Sample ID: 17I0642-17

Date(s) Analyzed: 09/26/2017 09/26/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.32	
	2	0.000	-0.030	0.030	0.34	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-DUP66

Lab Sample ID: 17I0642-18

Date(s) Analyzed: 09/27/2017 09/27/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	2.0	
	2	0.000	-0.030	0.030	1.9	5.1

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated blank as well as in the sample.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17I0642

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Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Tim S ~~Chris Berbiage~~/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs	SPLP PCBs	PAHs	SPLP PAHs								# of Containers	[2] Preservation Code	[3] Container Code
																			1	H	A
1	WS-AOC-9-SO-41-3R	9/14/17	1145		X	S	U			X	X										
2	WS-AOC-9-SO-45-1R		1230					X	X												
3	WS-AOC-9-SO-45-2R		1231					X	X												
4	WS-AOC-9-SO-48-1R		1051					X	X												
5	WS-AOC-12E-SO-31-2AR		1248					X	X												
6	WS-AOC-12E-SO-31-2BR		1249							X	X										
7	WS-AOC-12W-SO-39-4R		1455					X	X												
8	WS-AOC-12W-SO-85-2R		1447							X	X										
9	WS-AOC-12W-SO-99-4R		1400					X	X												
10	WS-AOC-12W-SO-92-4R		1424					X	X												

Comments:
Please do MS/MSD for WS-AOC-12W-SO-39-4R for only PCBs
~~Please hold excess volumes for possible SPLP analyses.~~
Please do MS/MSD for WS-AOC-12W-SO-99-4R for only PCBs, and for WS-AOC-12W-SO-92-4R for only PCBs

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time: 9/14/17 1515
Relinquished by: (signature)	Date/Time: 9/14/17 1540
Received by: (signature)	Date/Time: 9-14-17 1540
Relinquished by: (signature)	Date/Time: 9-14-17 6:30
Received by: (signature)	Date/Time: 9/14/17 1830

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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17I0642

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Tim S. [redacted]/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs	SPLP PCBs	PAHs	SPLP PAHs	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC-12W-SO-93-2R	9/14/17	1317		X	S	U	X	X			1	I	A
12	WS-AOC-12W-SO-94-2R		1326					X	X					
13	WS-AOC-12W-SO-97-2R		1309							X	X			
14	WS-AOC-12W-SO-98-4R		1346					X	X					
15	WS-AOC-9-SO-~~DUP~~ 63		—					X	X					
16	WS-AOC-12W-SO-DUP64		—					X	X					
17	WS-AOC-12W-SO-DUP65		—					X	X					
18	WS-AOC-12W-SO-DUP66		—					X	X					

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:
~~[redacted] hold excess volumes for possible SPLP analysis.~~

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time: 9/14/17 1515
Relinquished by: (signature)	Date/Time: 9/14/17 1540
Received by: (signature)	Date/Time: 9-14-17 1540
Relinquished by: (signature)	Date/Time: 9/14/17 6:30
Received by: (signature) 2.2	Date/Time: 9/14/17 1830

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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F: 413-525-6405
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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 9/14/17 Time 1830

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 2-2
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? T
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:			#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	24
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0642

Laboratory Sample ID(s):
17I0642-01 thru 17I0642-18

Sample Date(s):
09/14/2017

List RCP Methods Used:
, , SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Tod Kopyscinski **Position:** **Laboratory Director**

Printed Name: **Tod E. Kopyscinski** **Date:** **10/02/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 29, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0904

Enclosed are results of analyses for samples received by the laboratory on September 20, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/29/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0904

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC2-SO-1-1R	17I0904-01	Soil		SM 2540G	
				SW-846 8270D	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SW-846 8270D

Qualifications:

E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

Pyrene
17I0904-01[WS-AOC2-SO-1-1R]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0904

Date Received: 9/20/2017

Field Sample #: WS-AOC2-SO-1-1R Sampled: 9/18/2017 14:00

Sample ID: 17I0904-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Acenaphthene	ND	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Acenaphthylene	0.45	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Acenaphthylene	0.47	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Anthracene	0.60	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Anthracene	0.57	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Benzo(a)anthracene	1.9	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Benzo(a)anthracene	1.9	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Benzo(a)pyrene	2.7	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Benzo(a)pyrene	2.5	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Benzo(b)fluoranthene	3.0	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Benzo(b)fluoranthene	2.6	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Benzo(g,h,i)perylene	2.2	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Benzo(g,h,i)perylene	1.9	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Benzo(k)fluoranthene	1.0	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Benzo(k)fluoranthene	0.93	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Chrysene	1.9	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Chrysene	1.8	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Dibenz(a,h)anthracene	0.40	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Dibenz(a,h)anthracene	0.39	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Fluoranthene	3.8	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Fluoranthene	3.7	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Fluorene	ND	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Indeno(1,2,3-cd)pyrene	2.0	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Indeno(1,2,3-cd)pyrene	1.8	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
2-Methylnaphthalene	ND	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Naphthalene	0.21	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Naphthalene	ND	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Phenanthrene	1.7	0.19	mg/Kg dry	1		SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Phenanthrene	1.6	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL
Pyrene	5.2	0.19	mg/Kg dry	1	E	SW-846 8270D	9/25/17	9/27/17 14:49	BGL
Pyrene	5.0	0.37	mg/Kg dry	2		SW-846 8270D	9/25/17	9/27/17 16:44	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	72.0	30-130		9/27/17 14:49
Nitrobenzene-d5	72.8	30-130		9/27/17 16:44
2-Fluorobiphenyl	65.2	30-130		9/27/17 14:49
2-Fluorobiphenyl	63.3	30-130		9/27/17 16:44
p-Terphenyl-d14	77.3	30-130		9/27/17 14:49
p-Terphenyl-d14	73.3	30-130		9/27/17 16:44

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0904

Date Received: 9/20/2017

Field Sample #: WS-AOC2-SO-1-1R Sampled: 9/18/2017 14:00

Sample ID: 17I0904-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.1		% Wt	1		SM 2540G	9/22/17	9/22/17 18:04	CTL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0904

Date Received: 9/20/2017

Field Sample #: WS-AOC2-SO-1-1R Sampled: 9/18/2017 14:00

Sample ID: 17I0904-01

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Anthracene (SIM)	0.24	0.20	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Benzo(a)anthracene (SIM)	0.23	0.050	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Benzo(a)pyrene (SIM)	0.42	0.10	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Benzo(b)fluoranthene (SIM)	0.45	0.050	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Chrysene (SIM)	0.27	0.20	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Fluoranthene (SIM)	0.75	0.50	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Indeno(1,2,3-cd)pyrene (SIM)	0.32	0.20	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Phenanthrene (SIM)	0.95	0.050	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/28/17	9/29/17 14:43	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	70.5	30-130		9/29/17 14:43
2-Fluorobiphenyl	68.0	30-130		9/29/17 14:43
p-Terphenyl-d14	52.9	30-130		9/29/17 14:43

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0904-01 [WS-AOC2-SO-1-1R]	B186832	09/22/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0904-01 [WS-AOC2-SO-1-1R]	B186996	30.1	1.00	09/25/17
17I0904-01RE1 [WS-AOC2-SO-1-1R]	B186996	30.1	1.00	09/25/17

Prep Method: SW-846 3510C-SW-846 8270D **Leachates were extracted on 9/22/2017 per SW-846 1312 in Batch B186883**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0904-01 [WS-AOC2-SO-1-1R]	B187278	1000	1.00	09/28/17

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186996 - SW-846 3546										
Blank (B186996-BLK1)				Prepared: 09/25/17 Analyzed: 09/27/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*1.86*		mg/Kg wet	3.33		55.8	30-130			
Surrogate: 2-Fluorobiphenyl	*2.00*		mg/Kg wet	3.33		60.1	30-130			
Surrogate: p-Terphenyl-d14	*2.70*		mg/Kg wet	3.33		80.9	30-130			
LCS (B186996-BS1)				Prepared: 09/25/17 Analyzed: 09/27/17						
Acenaphthene	1.05	0.17	mg/Kg wet	1.67		63.0	40-140			
Acenaphthylene	1.01	0.17	mg/Kg wet	1.67		60.3	40-140			
Anthracene	1.10	0.17	mg/Kg wet	1.67		65.9	40-140			
Benzo(a)anthracene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140			
Benzo(a)pyrene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140			
Benzo(b)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140			
Benzo(g,h,i)perylene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140			
Benzo(k)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.3	40-140			
Chrysene	1.05	0.17	mg/Kg wet	1.67		62.7	40-140			
Dibenz(a,h)anthracene	1.14	0.17	mg/Kg wet	1.67		68.4	40-140			
Fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.2	40-140			
Fluorene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140			
Indeno(1,2,3-cd)pyrene	1.23	0.17	mg/Kg wet	1.67		73.8	40-140			
2-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.6	40-140			
Naphthalene	0.922	0.17	mg/Kg wet	1.67		55.3	40-140			
Phenanthrene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140			
Pyrene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140			
Surrogate: Nitrobenzene-d5	*2.31*		mg/Kg wet	3.33		69.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.26*		mg/Kg wet	3.33		67.8	30-130			
Surrogate: p-Terphenyl-d14	*2.45*		mg/Kg wet	3.33		73.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186996 - SW-846 3546										
LCS Dup (B186996-BSD1)				Prepared: 09/25/17 Analyzed: 09/27/17						
Acenaphthene	0.956	0.17	mg/Kg wet	1.67		57.4	40-140	9.40	30	
Acenaphthylene	0.926	0.17	mg/Kg wet	1.67		55.6	40-140	8.21	30	
Anthracene	1.00	0.17	mg/Kg wet	1.67		60.2	40-140	8.98	30	
Benzo(a)anthracene	1.02	0.17	mg/Kg wet	1.67		60.9	40-140	6.85	30	
Benzo(a)pyrene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	5.97	30	
Benzo(b)fluoranthene	0.964	0.17	mg/Kg wet	1.67		57.8	40-140	9.83	30	
Benzo(g,h,i)perylene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140	2.81	30	
Benzo(k)fluoranthene	0.937	0.17	mg/Kg wet	1.67		56.2	40-140	7.04	30	
Chrysene	0.969	0.17	mg/Kg wet	1.67		58.1	40-140	7.61	30	
Dibenz(a,h)anthracene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140	3.09	30	
Fluoranthene	0.999	0.17	mg/Kg wet	1.67		60.0	40-140	6.89	30	
Fluorene	0.967	0.17	mg/Kg wet	1.67		58.0	40-140	7.72	30	
Indeno(1,2,3-cd)pyrene	1.18	0.17	mg/Kg wet	1.67		71.1	40-140	3.81	30	
2-Methylnaphthalene	0.962	0.17	mg/Kg wet	1.67		57.7	40-140	9.76	30	
Naphthalene	0.849	0.17	mg/Kg wet	1.67		50.9	40-140	8.28	30	
Phenanthrene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	7.68	30	
Pyrene	1.03	0.17	mg/Kg wet	1.67		61.9	40-140	6.90	30	
Surrogate: Nitrobenzene-d5	*2.10*		mg/Kg wet	3.33		63.0	30-130			
Surrogate: 2-Fluorobiphenyl	*2.09*		mg/Kg wet	3.33		62.6	30-130			
Surrogate: p-Terphenyl-d14	*2.30*		mg/Kg wet	3.33		68.9	30-130			

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QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B187278 - SW-846 3510C										
Blank (B187278-BLK1)				Prepared: 09/28/17 Analyzed: 09/29/17						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.30	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L							
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*71.4*		µg/L	100		71.4	30-130			
Surrogate: 2-Fluorobiphenyl	*69.6*		µg/L	100		69.6	30-130			
Surrogate: p-Terphenyl-d14	*61.7*		µg/L	100		61.7	30-130			
LCS (B187278-BS1)				Prepared: 09/28/17 Analyzed: 09/29/17						
Acenaphthene (SIM)	42.9	7.5	µg/L	50.0		85.8	40-140			
Acenaphthylene (SIM)	41.7	7.5	µg/L	50.0		83.4	40-140			
Anthracene (SIM)	45.7	5.0	µg/L	50.0		91.4	40-140			
Benzo(a)anthracene (SIM)	46.2	1.2	µg/L	50.0		92.4	40-140			
Benzo(a)pyrene (SIM)	47.4	2.5	µg/L	50.0		94.8	40-140			
Benzo(b)fluoranthene (SIM)	47.2	1.2	µg/L	50.0		94.4	40-140			
Benzo(g,h,i)perylene (SIM)	47.9	12	µg/L	50.0		95.8	40-140			
Benzo(k)fluoranthene (SIM)	46.7	5.0	µg/L	50.0		93.4	40-140			
Chrysene (SIM)	46.6	5.0	µg/L	50.0		93.3	40-140			
Dibenz(a,h)anthracene (SIM)	47.6	5.0	µg/L	50.0		95.1	40-140			
Fluoranthene (SIM)	45.7	12	µg/L	50.0		91.4	40-140			
Fluorene (SIM)	43.2	25	µg/L	50.0		86.4	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	47.7	5.0	µg/L	50.0		95.4	40-140			
2-Methylnaphthalene (SIM)	40.2	25	µg/L	50.0		80.4	40-140			
Naphthalene (SIM)	39.4	25	µg/L	50.0		78.8	40-140			
Phenanthrene (SIM)	44.0	1.2	µg/L	50.0		88.0	40-140			
Pyrene (SIM)	44.2	25	µg/L	50.0		88.4	40-140			
Surrogate: Nitrobenzene-d5	*90.1*		µg/L	100		90.1	30-130			
Surrogate: 2-Fluorobiphenyl	*94.8*		µg/L	100		94.8	30-130			
Surrogate: p-Terphenyl-d14	*74.4*		µg/L	100		74.4	30-130			

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QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B187278 - SW-846 3510C										
LCS Dup (B187278-BSD1)				Prepared: 09/28/17 Analyzed: 09/29/17						
Acenaphthene (SIM)	40.0	7.5	µg/L	50.0		80.0	40-140	6.93	20	
Acenaphthylene (SIM)	39.3	7.5	µg/L	50.0		78.6	40-140	5.93	20	
Anthracene (SIM)	42.0	5.0	µg/L	50.0		84.1	40-140	8.37	20	
Benzo(a)anthracene (SIM)	42.2	1.2	µg/L	50.0		84.4	40-140	9.05	20	
Benzo(a)pyrene (SIM)	43.2	2.5	µg/L	50.0		86.4	40-140	9.28	20	
Benzo(b)fluoranthene (SIM)	43.7	1.2	µg/L	50.0		87.4	40-140	7.75	20	
Benzo(g,h,i)perylene (SIM)	43.2	12	µg/L	50.0		86.4	40-140	10.4	20	
Benzo(k)fluoranthene (SIM)	43.0	5.0	µg/L	50.0		86.1	40-140	8.13	20	
Chrysene (SIM)	42.6	5.0	µg/L	50.0		85.2	40-140	9.13	20	
Dibenz(a,h)anthracene (SIM)	42.6	5.0	µg/L	50.0		85.2	40-140	11.0	20	
Fluoranthene (SIM)	41.8	12	µg/L	50.0		83.6	40-140	8.91	20	
Fluorene (SIM)	41.0	25	µg/L	50.0		82.0	40-140	5.16	20	
Indeno(1,2,3-cd)pyrene (SIM)	42.7	5.0	µg/L	50.0		85.4	40-140	11.1	20	‡
2-Methylnaphthalene (SIM)	38.4	25	µg/L	50.0		76.8	40-140	4.58	20	
Naphthalene (SIM)	37.0	25	µg/L	50.0		74.1	40-140	6.21	20	
Phenanthrene (SIM)	40.6	1.2	µg/L	50.0		81.2	40-140	8.04	20	
Pyrene (SIM)	41.9	25	µg/L	50.0		83.8	40-140	5.34	20	
Surrogate: Nitrobenzene-d5	*83.6*		µg/L	100		83.6	30-130			
Surrogate: 2-Fluorobiphenyl	*87.1*		µg/L	100		87.1	30-130			
Surrogate: p-Terphenyl-d14	*69.6*		µg/L	100		69.6	30-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
E	Reported result is estimated. Value reported over verified calibration range.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17I0904

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con-test ANALYTICAL LABORATORY

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Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time

7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required

1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery

Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PAHs	SPLP PAHs										# of Containers	[2] Preservation Code	[3] Container Code
								1												I	A
1	WS-AOC2-SO-1-1R	9/18/17	1400		X	S	U	X	X												

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature] 9/20/17	
Received by: (signature) [signature]	Date/Time: 9/20/17 1615
Relinquished by: (signature) [signature]	Date/Time: 9/20/17 1825
Received by: (signature) Austin Fenton 4:16	Date/Time: 9/20/17 1825
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements

MA
CT RES DEC
Other:

Program Information

- ○ MCP Analytical Certification Form Required
- ● RCP Analysis Certification Form Required
- ○ MA State DW Form Required

PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

Dissolved Metals Samples
- ○ Field Filtered
- ○ Lab to Filter

Orthophosphate Samples
- ○ Field Filtered
- ○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By A.F Date 9/20/17 Time 1525

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.6
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? N/A
Are there Rushes? N/A Who was notified? N/A
Are there Short Holds? N/A Who was notified? N/A
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? N/A
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	1
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0904

Laboratory Sample ID(s):

17I0904-01

Sample Date(s):

09/18/2017

List RCP Methods Used:

SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/29/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

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August 3, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G0679

Enclosed are results of analyses for samples received by the laboratory on July 18, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0679

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-SO-17-1 (MS)	17G0679-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-17-2	17G0679-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-17-3	17G0679-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-34-1	17G0679-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-34-2	17G0679-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-34-3	17G0679-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-13-1A	17G0679-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-13-1B	17G0679-08	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
WS-AOC12W-SO-13-2	17G0679-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-13-3	17G0679-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-30-1	17G0679-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-30-2	17G0679-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-30-3	17G0679-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-9-1	17G0679-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-9-2	17G0679-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-9-3	17G0679-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-26-1A	17G0679-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-26-1B	17G0679-18	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 8270D	
WS-AOC12W-SO-26-2	17G0679-19	Soil		SM 2540G	
				SW-846 8082A	

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0679

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-SO-26-3	17G0679-20	Soil		SM 2540G SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - PAHs reported on sample 17G0679-18.

For method 6010, only As was requested and reported.

For method 8270, only PAHs were requested and reported.

CTDEP ETPH

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl

17G0679-08[WS-AOC12W-SO-13-1B]

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-17-1 (MS) Sampled: 7/18/2017 09:26

Sample ID: 17G0679-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:29	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:29	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:29	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:29	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:29	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:29	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:29	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:29	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:29	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.6	30-150		7/25/17 21:29
Decachlorobiphenyl [2]	87.5	30-150		7/25/17 21:29
Tetrachloro-m-xylene [1]	84.5	30-150		7/25/17 21:29
Tetrachloro-m-xylene [2]	89.0	30-150		7/25/17 21:29

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-17-1 (MS) Sampled: 7/18/2017 09:26

Sample ID: 17G0679-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.7		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-17-2 Sampled: 7/18/2017 09:28

Sample ID: 17G0679-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:41	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:41	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:41	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:41	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:41	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:41	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:41	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:41	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:41	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.7	30-150		7/25/17 21:41
Decachlorobiphenyl [2]	86.7	30-150		7/25/17 21:41
Tetrachloro-m-xylene [1]	88.0	30-150		7/25/17 21:41
Tetrachloro-m-xylene [2]	94.7	30-150		7/25/17 21:41

con-test® ANALYTICAL LABORATORY

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-17-2 Sampled: 7/18/2017 09:28

Sample ID: 17G0679-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.2		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-17-3 Sampled: 7/18/2017 09:30

Sample ID: 17G0679-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:53	KAL
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:53	KAL
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:53	KAL
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:53	KAL
Aroclor-1248 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:53	KAL
Aroclor-1254 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:53	KAL
Aroclor-1260 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:53	KAL
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:53	KAL
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 21:53	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.9	30-150		7/25/17 21:53
Decachlorobiphenyl [2]	75.8	30-150		7/25/17 21:53
Tetrachloro-m-xylene [1]	79.4	30-150		7/25/17 21:53
Tetrachloro-m-xylene [2]	83.5	30-150		7/25/17 21:53

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-17-3 Sampled: 7/18/2017 09:30

Sample ID: 17G0679-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	64.0		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-34-1 Sampled: 7/18/2017 09:36

Sample ID: 17G0679-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:06	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:06	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:06	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:06	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:06	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:06	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:06	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:06	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:06	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.9	30-150		7/25/17 22:06
Decachlorobiphenyl [2]	90.4	30-150		7/25/17 22:06
Tetrachloro-m-xylene [1]	93.1	30-150		7/25/17 22:06
Tetrachloro-m-xylene [2]	102	30-150		7/25/17 22:06

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-34-1 Sampled: 7/18/2017 09:36

Sample ID: 17G0679-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.2		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-34-2 Sampled: 7/18/2017 09:37

Sample ID: 17G0679-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:18	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:18	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:18	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:18	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:18	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:18	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:18	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:18	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:18	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	43.7	30-150		7/25/17 22:18
Decachlorobiphenyl [2]	51.5	30-150		7/25/17 22:18
Tetrachloro-m-xylene [1]	50.9	30-150		7/25/17 22:18
Tetrachloro-m-xylene [2]	51.7	30-150		7/25/17 22:18

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-34-2 Sampled: 7/18/2017 09:37

Sample ID: 17G0679-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	71.1		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-34-3 Sampled: 7/18/2017 09:38

Sample ID: 17G0679-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:31	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:31	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:31	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:31	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:31	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:31	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:31	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:31	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.3	30-150		7/25/17 22:31
Decachlorobiphenyl [2]	83.7	30-150		7/25/17 22:31
Tetrachloro-m-xylene [1]	86.8	30-150		7/25/17 22:31
Tetrachloro-m-xylene [2]	93.5	30-150		7/25/17 22:31

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-34-3 Sampled: 7/18/2017 09:38

Sample ID: 17G0679-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.9		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-13-1A Sampled: 7/18/2017 09:40

Sample ID: 17G0679-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:43	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:43	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:43	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:43	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:43	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:43	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:43	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:43	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 22:43	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.8	30-150		7/25/17 22:43
Decachlorobiphenyl [2]	88.1	30-150		7/25/17 22:43
Tetrachloro-m-xylene [1]	90.6	30-150		7/25/17 22:43
Tetrachloro-m-xylene [2]	98.4	30-150		7/25/17 22:43

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-13-1A Sampled: 7/18/2017 09:40

Sample ID: 17G0679-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.3		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-13-1B Sampled: 7/18/2017 09:42

Sample ID: 17G0679-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	750	230	mg/Kg dry	20		CTDEP ETPH	7/24/17	7/27/17 18:41	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	7/27/17 18:41

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-13-1B Sampled: 7/18/2017 09:42

Sample ID: 17G0679-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	15	2.8	mg/Kg dry	1		SW-846 6010C-D	7/20/17	7/24/17 5:21	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-13-1B Sampled: 7/18/2017 09:42

Sample ID: 17G0679-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.6		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-13-2 Sampled: 7/18/2017 09:44

Sample ID: 17G0679-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/27/17 12:29	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/27/17 12:29	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/27/17 12:29	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/27/17 12:29	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/27/17 12:29	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/27/17 12:29	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/27/17 12:29	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/27/17 12:29	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/27/17 12:29	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.7	30-150		7/27/17 12:29
Decachlorobiphenyl [2]	110	30-150		7/27/17 12:29
Tetrachloro-m-xylene [1]	90.1	30-150		7/27/17 12:29
Tetrachloro-m-xylene [2]	89.4	30-150		7/27/17 12:29

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-13-2 Sampled: 7/18/2017 09:44

Sample ID: 17G0679-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.0		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-13-3 Sampled: 7/18/2017 09:46

Sample ID: 17G0679-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 23:08	KAL
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 23:08	KAL
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 23:08	KAL
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 23:08	KAL
Aroclor-1248 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 23:08	KAL
Aroclor-1254 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 23:08	KAL
Aroclor-1260 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 23:08	KAL
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 23:08	KAL
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/25/17 23:08	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	56.9	30-150		7/25/17 23:08
Decachlorobiphenyl [2]	66.6	30-150		7/25/17 23:08
Tetrachloro-m-xylene [1]	77.9	30-150		7/25/17 23:08
Tetrachloro-m-xylene [2]	82.5	30-150		7/25/17 23:08

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-13-3 Sampled: 7/18/2017 09:46

Sample ID: 17G0679-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	65.6		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-30-1 Sampled: 7/18/2017 09:55

Sample ID: 17G0679-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:10	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:10	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:10	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:10	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:10	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:10	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:10	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:10	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:10	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	59.3	30-150		7/26/17 0:10
Decachlorobiphenyl [2]	69.2	30-150		7/26/17 0:10
Tetrachloro-m-xylene [1]	69.0	30-150		7/26/17 0:10
Tetrachloro-m-xylene [2]	75.6	30-150		7/26/17 0:10

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-30-1 Sampled: 7/18/2017 09:55

Sample ID: 17G0679-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.0		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-30-2 Sampled: 7/18/2017 09:56

Sample ID: 17G0679-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:22	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:22	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:22	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:22	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:22	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:22	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:22	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:22	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:22	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	33.8	30-150		7/26/17 0:22
Decachlorobiphenyl [2]	40.3	30-150		7/26/17 0:22
Tetrachloro-m-xylene [1]	38.2	30-150		7/26/17 0:22
Tetrachloro-m-xylene [2]	37.6	30-150		7/26/17 0:22

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-30-2 Sampled: 7/18/2017 09:56

Sample ID: 17G0679-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.3		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-30-3 Sampled: 7/18/2017 09:57

Sample ID: 17G0679-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:34	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:34	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:34	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:34	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:34	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:34	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:34	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:34	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:34	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.9	30-150		7/26/17 0:34
Decachlorobiphenyl [2]	75.9	30-150		7/26/17 0:34
Tetrachloro-m-xylene [1]	79.3	30-150		7/26/17 0:34
Tetrachloro-m-xylene [2]	85.8	30-150		7/26/17 0:34

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-30-3 Sampled: 7/18/2017 09:57

Sample ID: 17G0679-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.5		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-9-1 Sampled: 7/18/2017 09:59

Sample ID: 17G0679-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:47	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:47	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:47	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:47	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:47	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:47	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:47	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:47	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:47	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	65.8	30-150		7/26/17 0:47
Decachlorobiphenyl [2]	77.1	30-150		7/26/17 0:47
Tetrachloro-m-xylene [1]	78.3	30-150		7/26/17 0:47
Tetrachloro-m-xylene [2]	81.6	30-150		7/26/17 0:47

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-9-1 Sampled: 7/18/2017 09:59

Sample ID: 17G0679-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.0		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-9-2 Sampled: 7/18/2017 10:01

Sample ID: 17G0679-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:59	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:59	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:59	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:59	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:59	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:59	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:59	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:59	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 0:59	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	59.7	30-150		7/26/17 0:59
Decachlorobiphenyl [2]	73.2	30-150		7/26/17 0:59
Tetrachloro-m-xylene [1]	74.3	30-150		7/26/17 0:59
Tetrachloro-m-xylene [2]	70.8	30-150		7/26/17 0:59

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-9-2 Sampled: 7/18/2017 10:01

Sample ID: 17G0679-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.9		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-9-3 Sampled: 7/18/2017 10:03

Sample ID: 17G0679-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:12	KAL
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:12	KAL
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:12	KAL
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:12	KAL
Aroclor-1248 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:12	KAL
Aroclor-1254 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:12	KAL
Aroclor-1260 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:12	KAL
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:12	KAL
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:12	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.7	30-150		7/26/17 1:12
Decachlorobiphenyl [2]	73.0	30-150		7/26/17 1:12
Tetrachloro-m-xylene [1]	75.4	30-150		7/26/17 1:12
Tetrachloro-m-xylene [2]	68.2	30-150		7/26/17 1:12

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-9-3 Sampled: 7/18/2017 10:03

Sample ID: 17G0679-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	66.9		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-26-1A Sampled: 7/18/2017 10:05

Sample ID: 17G0679-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:24	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:24	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:24	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:24	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:24	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:24	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:24	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:24	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:24	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.7	30-150		7/26/17 1:24
Decachlorobiphenyl [2]	74.2	30-150		7/26/17 1:24
Tetrachloro-m-xylene [1]	76.8	30-150		7/26/17 1:24
Tetrachloro-m-xylene [2]	79.1	30-150		7/26/17 1:24

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-26-1A Sampled: 7/18/2017 10:05

Sample ID: 17G0679-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.1		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-26-1B Sampled: 7/18/2017 10:06

Sample ID: 17G0679-18

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/31/17	8/2/17 8:57	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	52.8	30-130		8/2/17 8:57
2-Fluorobiphenyl	59.4	30-130		8/2/17 8:57
p-Terphenyl-d14	61.4	30-130		8/2/17 8:57

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-26-1B Sampled: 7/18/2017 10:06

Sample ID: 17G0679-18

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010C-D	7/20/17	7/24/17 5:25	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-26-1B Sampled: 7/18/2017 10:06

Sample ID: 17G0679-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.5		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-26-2 Sampled: 7/18/2017 10:09

Sample ID: 17G0679-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:36	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:36	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:36	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:36	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:36	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:36	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:36	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:36	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:36	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	45.5	30-150		7/26/17 1:36
Decachlorobiphenyl [2]	55.6	30-150		7/26/17 1:36
Tetrachloro-m-xylene [1]	59.3	30-150		7/26/17 1:36
Tetrachloro-m-xylene [2]	61.0	30-150		7/26/17 1:36

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-26-2 Sampled: 7/18/2017 10:09

Sample ID: 17G0679-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.6		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-26-3 Sampled: 7/18/2017 10:08

Sample ID: 17G0679-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:49	KAL
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:49	KAL
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:49	KAL
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:49	KAL
Aroclor-1248 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:49	KAL
Aroclor-1254 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:49	KAL
Aroclor-1260 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:49	KAL
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:49	KAL
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 1:49	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	56.5	30-150		7/26/17 1:49
Decachlorobiphenyl [2]	63.3	30-150		7/26/17 1:49
Tetrachloro-m-xylene [1]	66.5	30-150		7/26/17 1:49
Tetrachloro-m-xylene [2]	68.2	30-150		7/26/17 1:49

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0679

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-26-3 Sampled: 7/18/2017 10:08

Sample ID: 17G0679-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	67.6		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0679-08 [WS-AOC12W-SO-13-1B]	B182388	30.0	1.00	07/24/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0679-01 [WS-AOC12W-SO-17-1 (MS)]	B182352	07/24/17
17G0679-02 [WS-AOC12W-SO-17-2]	B182352	07/24/17
17G0679-03 [WS-AOC12W-SO-17-3]	B182352	07/24/17
17G0679-04 [WS-AOC12W-SO-34-1]	B182352	07/24/17
17G0679-05 [WS-AOC12W-SO-34-2]	B182352	07/24/17
17G0679-06 [WS-AOC12W-SO-34-3]	B182352	07/24/17
17G0679-07 [WS-AOC12W-SO-13-1A]	B182352	07/24/17
17G0679-08 [WS-AOC12W-SO-13-1B]	B182352	07/24/17
17G0679-09 [WS-AOC12W-SO-13-2]	B182352	07/24/17
17G0679-10 [WS-AOC12W-SO-13-3]	B182352	07/24/17
17G0679-11 [WS-AOC12W-SO-30-1]	B182352	07/24/17
17G0679-12 [WS-AOC12W-SO-30-2]	B182352	07/24/17
17G0679-13 [WS-AOC12W-SO-30-3]	B182352	07/24/17
17G0679-14 [WS-AOC12W-SO-9-1]	B182352	07/24/17
17G0679-15 [WS-AOC12W-SO-9-2]	B182352	07/24/17
17G0679-16 [WS-AOC12W-SO-9-3]	B182352	07/24/17
17G0679-17 [WS-AOC12W-SO-26-1A]	B182352	07/24/17
17G0679-18 [WS-AOC12W-SO-26-1B]	B182352	07/24/17
17G0679-19 [WS-AOC12W-SO-26-2]	B182352	07/24/17
17G0679-20 [WS-AOC12W-SO-26-3]	B182352	07/24/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0679-08 [WS-AOC12W-SO-13-1B]	B182155	1.01	50.0	07/20/17
17G0679-18 [WS-AOC12W-SO-26-1B]	B182155	1.00	50.0	07/20/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0679-01 [WS-AOC12W-SO-17-1 (MS)]	B182255	10.0	10.0	07/21/17
17G0679-02 [WS-AOC12W-SO-17-2]	B182255	10.0	10.0	07/21/17
17G0679-03 [WS-AOC12W-SO-17-3]	B182255	10.0	10.0	07/21/17
17G0679-04 [WS-AOC12W-SO-34-1]	B182255	10.0	10.0	07/21/17
17G0679-05 [WS-AOC12W-SO-34-2]	B182255	10.0	10.0	07/21/17
17G0679-06 [WS-AOC12W-SO-34-3]	B182255	10.0	10.0	07/21/17
17G0679-07 [WS-AOC12W-SO-13-1A]	B182255	10.0	10.0	07/21/17
17G0679-10 [WS-AOC12W-SO-13-3]	B182255	10.0	10.0	07/21/17
17G0679-11 [WS-AOC12W-SO-30-1]	B182255	10.0	10.0	07/21/17
17G0679-12 [WS-AOC12W-SO-30-2]	B182255	10.0	10.0	07/21/17
17G0679-13 [WS-AOC12W-SO-30-3]	B182255	10.0	10.0	07/21/17
17G0679-14 [WS-AOC12W-SO-9-1]	B182255	10.0	10.0	07/21/17
17G0679-15 [WS-AOC12W-SO-9-2]	B182255	10.0	10.0	07/21/17
17G0679-16 [WS-AOC12W-SO-9-3]	B182255	10.0	10.0	07/21/17
17G0679-17 [WS-AOC12W-SO-26-1A]	B182255	10.0	10.0	07/21/17
17G0679-19 [WS-AOC12W-SO-26-2]	B182255	10.0	10.0	07/21/17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0679-20 [WS-AOC12W-SO-26-3]	B182255	10.0	10.0	07/21/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0679-09RE1 [WS-AOC12W-SO-13-2]	B182529	10.0	10.0	07/26/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0679-18 [WS-AOC12W-SO-26-1B]	B182956	30.0	1.00	07/31/17

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182956 - SW-846 3546										
Blank (B182956-BLK1)				Prepared: 07/31/17 Analyzed: 08/01/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.75*		mg/Kg wet	3.33		82.4	30-130			
Surrogate: 2-Fluorobiphenyl	*2.63*		mg/Kg wet	3.33		79.0	30-130			
Surrogate: p-Terphenyl-d14	*3.56*		mg/Kg wet	3.33		107	30-130			
LCS (B182956-BS1)				Prepared: 07/31/17 Analyzed: 08/01/17						
Acenaphthene	1.16	0.17	mg/Kg wet	1.67		69.4	40-140			
Acenaphthylene	1.18	0.17	mg/Kg wet	1.67		70.5	40-140			
Anthracene	1.24	0.17	mg/Kg wet	1.67		74.5	40-140			
Benzo(a)anthracene	1.26	0.17	mg/Kg wet	1.67		75.4	40-140			
Benzo(a)pyrene	1.30	0.17	mg/Kg wet	1.67		78.1	40-140			
Benzo(b)fluoranthene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140			
Benzo(g,h,i)perylene	1.51	0.17	mg/Kg wet	1.67		90.4	40-140			
Benzo(k)fluoranthene	1.22	0.17	mg/Kg wet	1.67		73.4	40-140			
Chrysene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140			
Dibenz(a,h)anthracene	1.42	0.17	mg/Kg wet	1.67		85.4	40-140			
Fluoranthene	1.10	0.17	mg/Kg wet	1.67		65.8	40-140			
Fluorene	1.24	0.17	mg/Kg wet	1.67		74.7	40-140			
Indeno(1,2,3-cd)pyrene	1.44	0.17	mg/Kg wet	1.67		86.6	40-140			
2-Methylnaphthalene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140			
Naphthalene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140			
Phenanthrene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140			
Pyrene	1.42	0.17	mg/Kg wet	1.67		85.0	40-140			
Surrogate: Nitrobenzene-d5	*2.64*		mg/Kg wet	3.33		79.1	30-130			
Surrogate: 2-Fluorobiphenyl	*2.83*		mg/Kg wet	3.33		84.9	30-130			
Surrogate: p-Terphenyl-d14	*3.38*		mg/Kg wet	3.33		101	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182956 - SW-846 3546										
LCS Dup (B182956-BSD1)				Prepared: 07/31/17 Analyzed: 08/01/17						
Acenaphthene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	10.0	30	
Acenaphthylene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140	11.0	30	
Anthracene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140	9.30	30	
Benzo(a)anthracene	1.16	0.17	mg/Kg wet	1.67		69.8	40-140	7.74	30	
Benzo(a)pyrene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140	7.88	30	
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	8.76	30	
Benzo(g,h,i)perylene	1.40	0.17	mg/Kg wet	1.67		84.3	40-140	7.01	30	
Benzo(k)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.0	40-140	10.6	30	
Chrysene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	8.23	30	
Dibenz(a,h)anthracene	1.32	0.17	mg/Kg wet	1.67		79.1	40-140	7.56	30	
Fluoranthene	0.993	0.17	mg/Kg wet	1.67		59.6	40-140	9.83	30	
Fluorene	1.10	0.17	mg/Kg wet	1.67		65.9	40-140	12.5	30	
Indeno(1,2,3-cd)pyrene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140	10.8	30	
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		68.1	40-140	9.76	30	
Naphthalene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140	7.23	30	
Phenanthrene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140	9.04	30	
Pyrene	1.24	0.17	mg/Kg wet	1.67		74.7	40-140	13.0	30	
Surrogate: Nitrobenzene-d5	*2.42*		mg/Kg wet	3.33		72.5	30-130			
Surrogate: 2-Fluorobiphenyl	*2.56*		mg/Kg wet	3.33		76.8	30-130			
Surrogate: p-Terphenyl-d14	*2.96*		mg/Kg wet	3.33		88.7	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182255 - SW-846 3540C										
Blank (B182255-BLK1)				Prepared: 07/21/17 Analyzed: 07/25/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.177*		mg/Kg wet	0.200		88.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.159*		mg/Kg wet	0.200		79.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.176*		mg/Kg wet	0.200		87.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.146*		mg/Kg wet	0.200		73.2	30-150			
LCS (B182255-BS1)				Prepared: 07/21/17 Analyzed: 07/25/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.2	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		90.1	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		87.8	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.5	40-140			
Surrogate: Decachlorobiphenyl	*0.189*		mg/Kg wet	0.200		94.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.165*		mg/Kg wet	0.200		82.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.180*		mg/Kg wet	0.200		90.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.147*		mg/Kg wet	0.200		73.6	30-150			
LCS Dup (B182255-BSD1)				Prepared: 07/21/17 Analyzed: 07/25/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.5	40-140	4.26	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.4	40-140	1.98	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		84.1	40-140	4.37	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		77.4	40-140	5.24	30	
Surrogate: Decachlorobiphenyl	*0.176*		mg/Kg wet	0.200		88.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.159*		mg/Kg wet	0.200		79.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		86.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.144*		mg/Kg wet	0.200		72.1	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182255 - SW-846 3540C										
Matrix Spike (B182255-MS1)		**Source: 17G0679-01**		Prepared: 07/21/17 Analyzed: 07/26/17						
Aroclor-1016	0.20	0.11	mg/Kg dry	0.213	ND	94.1	40-140			
Aroclor-1016 [2C]	0.21	0.11	mg/Kg dry	0.213	ND	97.2	40-140			
Aroclor-1260	0.17	0.11	mg/Kg dry	0.213	ND	78.1	40-140			
Aroclor-1260 [2C]	0.16	0.11	mg/Kg dry	0.213	ND	72.8	40-140			
Surrogate: Decachlorobiphenyl	*0.157*		mg/Kg dry	0.213		73.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg dry	0.213		84.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.201*		mg/Kg dry	0.213		94.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.215*		mg/Kg dry	0.213		101	30-150			
Matrix Spike Dup (B182255-MSD1)		**Source: 17G0679-01**		Prepared: 07/21/17 Analyzed: 07/26/17						
Aroclor-1016	0.17	0.11	mg/Kg dry	0.213	ND	80.8	40-140	15.1	50	
Aroclor-1016 [2C]	0.17	0.11	mg/Kg dry	0.213	ND	81.0	40-140	18.2	50	
Aroclor-1260	0.14	0.11	mg/Kg dry	0.213	ND	65.8	40-140	17.0	50	
Aroclor-1260 [2C]	0.13	0.11	mg/Kg dry	0.213	ND	61.0	40-140	17.7	50	
Surrogate: Decachlorobiphenyl	*0.131*		mg/Kg dry	0.213		61.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.150*		mg/Kg dry	0.213		70.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg dry	0.213		80.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.181*		mg/Kg dry	0.213		84.7	30-150			
Batch B182529 - SW-846 3540C										
Blank (B182529-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.168*		mg/Kg wet	0.200		83.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.159*		mg/Kg wet	0.200		79.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.171*		mg/Kg wet	0.200		85.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.160*		mg/Kg wet	0.200		80.0	30-150			

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182529 - SW-846 3540C										
LCS (B182529-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.2	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.4	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.6	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.7	40-140			
Surrogate: Decachlorobiphenyl	*0.167*		mg/Kg wet	0.200		83.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.157*		mg/Kg wet	0.200		78.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.175*		mg/Kg wet	0.200		87.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.164*		mg/Kg wet	0.200		81.8	30-150			
LCS Dup (B182529-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		75.6	40-140	17.6	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		76.8	40-140	15.1	30	
Aroclor-1260	0.13	0.020	mg/Kg wet	0.200		65.7	40-140	19.1	30	
Aroclor-1260 [2C]	0.12	0.020	mg/Kg wet	0.200		62.3	40-140	16.8	30	
Surrogate: Decachlorobiphenyl	*0.142*		mg/Kg wet	0.200		70.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.133*		mg/Kg wet	0.200		66.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.150*		mg/Kg wet	0.200		75.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.140*		mg/Kg wet	0.200		70.1	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182388 - SW-846 3546										
Blank (B182388-BLK1)				Prepared: 07/24/17 Analyzed: 07/25/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.91*		mg/Kg wet	3.33		117	50-150			
LCS (B182388-BS1)				Prepared: 07/24/17 Analyzed: 07/25/17						
CT ETPH	34.3	10	mg/Kg wet	33.3		103	60-120			
Surrogate: o-Terphenyl	*3.19*		mg/Kg wet	3.33		95.6	50-150			
LCS Dup (B182388-BSD1)				Prepared: 07/24/17 Analyzed: 07/25/17						
CT ETPH	31.3	10	mg/Kg wet	33.3		93.8	60-120	9.16	30	
Surrogate: o-Terphenyl	*2.82*		mg/Kg wet	3.33		84.6	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182155 - SW-846 3050B										
Blank (B182155-BLK1)				Prepared: 07/20/17 Analyzed: 07/24/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B182155-BS1)				Prepared: 07/20/17 Analyzed: 07/24/17						
Arsenic	52.4	4.9	mg/Kg wet	57.0		92.0	77.8-122.1			
LCS Dup (B182155-BSD1)				Prepared: 07/20/17 Analyzed: 07/24/17						
Arsenic	54.4	5.0	mg/Kg wet	57.0		95.4	77.8-122.1	3.72	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182352 - % Solids										
Duplicate (B182352-DUP1)		**Source: 17G0679-01**		Prepared: 07/24/17 Analyzed: 07/25/17						
% Solids	94.2		% Wt		93.7			0.532	20	
Duplicate (B182352-DUP2)		**Source: 17G0679-02**		Prepared: 07/24/17 Analyzed: 07/25/17						
% Solids	79.6		% Wt		80.2			0.751	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182255-BS1 Date(s) Analyzed 07/25/2017 07/25/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.18	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.16	11.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182255-BSD1 Date(s) Analyzed 07/25/2017 07/25/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.18	5.7
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.15	12.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182255-MS1 Date(s) Analyzed 07/26/2017 07/26/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.21	4.9
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.16	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182255-MSD1

Date(s) Analyzed 07/26/2017 07/26/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.13	7.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182529-BS1

Date(s) Analyzed 07/27/2017 07/27/2017

Instrument ID (1): ECD3

Instrument ID (2): ECD3

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.18	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.15	6.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182529-BSD1 Date(s) Analyzed 07/27/2017 07/27/2017

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.15	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.12	8.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

1760679

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con-test® ANALYTICAL LABORATORY
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Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	ETPH	SPLP ETPH	PAHs	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12W-SO-17-1(MS)	7/18/17	9:26		X	S	U	X								
2	WS-AOC12W-SO-17-2	7/18/17	9:28					X								
3	WS-AOC12W-SO-17-3	7/18/17	9:30					X								
4	WS-AOC12W-SO-34-1		9:36					X								
5	WS-AOC12W-SO-34-2		9:37					X								
6	WS-AOC12W-SO-34-3		9:38					X								
7	WS-AOC12W-SO-13-1A		9:40					X								
8	WS-AOC12W-SO-13-1B		9:42							X			X			
9	WS-AOC12W-SO-13-2		9:44					X								
10	WS-AOC12W-SO-13-3		9:46					X								

Comments:
WS-AOC12W-SO-17-1 ~~[illegible]~~ (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)	Date/Time:
[signature]	7/18/17
Received by: (signature)	Date/Time:
[signature]	7/18/17 1515
Relinquished by: (signature)	Date/Time:
[signature]	7/18/17 [illegible]
Received by: (signature)	Date/Time:
[signature] 2.6	7/18/17 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Table of Contents

17G0679

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1] Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	ETPH	SPLP ETPH	PAHs	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12W-SO-30-1	7/18/17	9:55		X	S	U	X								
12	WS-AOC12W-SO-30-2		9:56					X								
13	WS-AOC12W-SO-30-3		9:57					X								
14	WS-AOC12W-SO-9-1		9:59					X								
15	WS-AOC12W-SO-9-2		10:01					X								
16	WS-AOC12W-SO-9-3		10:03					X								
17	WS-AOC12W-SO-26-1A		10:05					X								
18	WS-AOC12W-SO-26-1B		10:06									X				
19	WS-AOC12W-SO-26-2		10:07					X								
20	WS-AOC12W-SO-26-3		10:08					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)	Date/Time: 7/18/17	
Received by: (signature)	Date/Time: 7/18/17 1520	
Relinquished by: (signature)	Date/Time: 7/18/17	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 7/18/17 Time 1700

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 2.6, 2.8
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? T
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	22
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A072717.SEC\A0727055.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	7/27/17
Data File Name	A0727055.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	429971	456453	-6
c - 10	1.49	436660	456453	-4
c - 12	2.22	455312	456453	0
c - 14	2.88	461259	456453	1
c - 16	3.48	469293	456453	3
c - 18	4.05	462720	456453	1
o-Terphenyl	4.36	532470	456453	
c - 20	4.66	470640	456453	3
c - 22	5.18	476652	456453	4
c - 24	5.62	443852	456453	-3
c - 26	6.01	468554	456453	3
c - 28	6.37	463829	456453	2
c - 30	6.70	457044	456453	0
c - 32	7.01	446255	456453	-2
c - 34	7.30	450835	456453	-1
c - 36	7.58	453922	456453	-1

* One compound allowed %D <= 50%

Samples

17G0775-13
17G0679-08@20X
17G0772-08@10X
17G0778-14@5X
17G0779-07@10X
17G0779-12@10X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17G0679

Laboratory Sample ID(s):

17G0679-01 thru 17G0679-20

Sample Date(s):

07/18/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **07/28/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 21, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0319

Enclosed are results of analyses for samples received by the laboratory on September 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/21/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0319

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-6-SO-5-3	17I0319-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-5-4	17I0319-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-13-1	17I0319-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-13-2	17I0319-04	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-13-3	17I0319-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-13-4	17I0319-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-7-1	17I0319-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-7-2	17I0319-08	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-7-3	17I0319-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-7-4	17I0319-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-17-1	17I0319-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-17-2	17I0319-12	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-17-3	17I0319-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-17-4	17I0319-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-8-1	17I0319-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-8-2	17I0319-16	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC-6-SO-8-3	17I0319-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-8-4	17I0319-18	Soil		SM 2540G	
				SW-846 8082A	

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/21/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0319

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-6-SO-16-1	17I0319-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-16-2	17I0319-20	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SW-846 8082A

Qualifications:

P-02

Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

Analyte & Samples(s) Qualified:

Aroclor-1268 [2C]
17I0319-11[WS-AOC-6-SO-17-1]

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl
17I0319-03[WS-AOC-6-SO-13-1]

Decachlorobiphenyl [2C]
17I0319-03[WS-AOC-6-SO-13-1]

Tetrachloro-m-xylene
17I0319-03[WS-AOC-6-SO-13-1]

Tetrachloro-m-xylene [2C]
17I0319-03[WS-AOC-6-SO-13-1]

SW-846 8270D

Qualifications:

E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

Benzo(a)anthracene
17I0319-16[WS-AOC-6-SO-8-2]

Benzo(b)fluoranthene
17I0319-16[WS-AOC-6-SO-8-2]

Fluoranthene
17I0319-16[WS-AOC-6-SO-8-2]

Phenanthrene
17I0319-16[WS-AOC-6-SO-8-2]

Pyrene
17I0319-16[WS-AOC-6-SO-8-2]

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-3 Sampled: 9/8/2017 10:47

Sample ID: 17I0319-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:23	TG
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:23	TG
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:23	TG
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:23	TG
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:23	TG
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:23	TG
Aroclor-1260 [2]	0.10	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:23	TG
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:23	TG
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:23	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.0	30-150		9/21/17 4:23
Decachlorobiphenyl [2]	94.0	30-150		9/21/17 4:23
Tetrachloro-m-xylene [1]	97.2	30-150		9/21/17 4:23
Tetrachloro-m-xylene [2]	99.5	30-150		9/21/17 4:23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-3 Sampled: 9/8/2017 10:47

Sample ID: 17I0319-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-4 Sampled: 9/8/2017 10:48

Sample ID: 17I0319-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:41	TG
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:41	TG
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:41	TG
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:41	TG
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:41	TG
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:41	TG
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:41	TG
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:41	TG
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 4:41	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.2	30-150		9/21/17 4:41
Decachlorobiphenyl [2]	93.2	30-150		9/21/17 4:41
Tetrachloro-m-xylene [1]	98.6	30-150		9/21/17 4:41
Tetrachloro-m-xylene [2]	100	30-150		9/21/17 4:41

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-4 Sampled: 9/8/2017 10:48

Sample ID: 17I0319-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.3		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-13-1 Sampled: 9/8/2017 10:57

Sample ID: 17I0319-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.87	mg/Kg dry	40		SW-846 8082A	9/15/17	9/21/17 11:04	TG
Aroclor-1221 [1]	ND	0.87	mg/Kg dry	40		SW-846 8082A	9/15/17	9/21/17 11:04	TG
Aroclor-1232 [1]	ND	0.87	mg/Kg dry	40		SW-846 8082A	9/15/17	9/21/17 11:04	TG
Aroclor-1242 [1]	ND	0.87	mg/Kg dry	40		SW-846 8082A	9/15/17	9/21/17 11:04	TG
Aroclor-1248 [1]	ND	0.87	mg/Kg dry	40		SW-846 8082A	9/15/17	9/21/17 11:04	TG
Aroclor-1254 [1]	ND	0.87	mg/Kg dry	40		SW-846 8082A	9/15/17	9/21/17 11:04	TG
Aroclor-1260 [1]	2.3	0.87	mg/Kg dry	40		SW-846 8082A	9/15/17	9/21/17 11:04	TG
Aroclor-1262 [1]	ND	0.87	mg/Kg dry	40		SW-846 8082A	9/15/17	9/21/17 11:04	TG
Aroclor-1268 [1]	9.6	0.87	mg/Kg dry	40		SW-846 8082A	9/15/17	9/21/17 11:04	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/21/17 11:04
Decachlorobiphenyl [2]	*	30-150	S-01	9/21/17 11:04
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/21/17 11:04
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/21/17 11:04

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-13-1 Sampled: 9/8/2017 10:57

Sample ID: 17I0319-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-13-2 Sampled: 9/8/2017 10:58

Sample ID: 17I0319-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:16	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:16	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:16	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:16	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:16	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:16	TG
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:16	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:16	TG
Aroclor-1268 [1]	0.13	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:16	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.1	30-150		9/21/17 5:16
Decachlorobiphenyl [2]	102	30-150		9/21/17 5:16
Tetrachloro-m-xylene [1]	94.4	30-150		9/21/17 5:16
Tetrachloro-m-xylene [2]	96.8	30-150		9/21/17 5:16

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-13-2 Sampled: 9/8/2017 10:58

Sample ID: 17I0319-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	820	280	mg/Kg dry	25		CTDEP ETPH	9/15/17	9/20/17 16:11	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150		9/20/17 16:11

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-13-2 Sampled: 9/8/2017 10:58

Sample ID: 17I0319-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-13-3 Sampled: 9/8/2017 10:59

Sample ID: 17I0319-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:34	TG
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:34	TG
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:34	TG
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:34	TG
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:34	TG
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:34	TG
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:34	TG
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:34	TG
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:34	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.5	30-150		9/21/17 5:34
Decachlorobiphenyl [2]	95.3	30-150		9/21/17 5:34
Tetrachloro-m-xylene [1]	103	30-150		9/21/17 5:34
Tetrachloro-m-xylene [2]	105	30-150		9/21/17 5:34

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-13-3 Sampled: 9/8/2017 10:59

Sample ID: 17I0319-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-13-4 Sampled: 9/8/2017 11:00

Sample ID: 17I0319-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:51	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:51	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:51	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:51	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:51	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:51	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:51	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:51	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 5:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.2	30-150		9/21/17 5:51
Decachlorobiphenyl [2]	96.0	30-150		9/21/17 5:51
Tetrachloro-m-xylene [1]	101	30-150		9/21/17 5:51
Tetrachloro-m-xylene [2]	103	30-150		9/21/17 5:51

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-13-4 Sampled: 9/8/2017 11:00

Sample ID: 17I0319-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	67.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-7-1 Sampled: 9/8/2017 11:18

Sample ID: 17I0319-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:09	TG
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:09	TG
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:09	TG
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:09	TG
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:09	TG
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:09	TG
Aroclor-1260 [2]	0.10	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:09	TG
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:09	TG
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:09	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.5	30-150		9/21/17 6:09
Decachlorobiphenyl [2]	92.3	30-150		9/21/17 6:09
Tetrachloro-m-xylene [1]	96.0	30-150		9/21/17 6:09
Tetrachloro-m-xylene [2]	98.9	30-150		9/21/17 6:09

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-7-1 Sampled: 9/8/2017 11:18

Sample ID: 17I0319-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-7-2 Sampled: 9/8/2017 11:19

Sample ID: 17I0319-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:27	TG
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:27	TG
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:27	TG
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:27	TG
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:27	TG
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:27	TG
Aroclor-1260 [2]	0.22	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:27	TG
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:27	TG
Aroclor-1268 [1]	0.24	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:27	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.6	30-150		9/21/17 6:27
Decachlorobiphenyl [2]	95.3	30-150		9/21/17 6:27
Tetrachloro-m-xylene [1]	98.2	30-150		9/21/17 6:27
Tetrachloro-m-xylene [2]	99.2	30-150		9/21/17 6:27

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-7-2 Sampled: 9/8/2017 11:19

Sample ID: 17I0319-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	200	58	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 2:18	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	52.1	50-150		9/20/17 2:18

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-7-2 Sampled: 9/8/2017 11:19

Sample ID: 17I0319-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-7-3 Sampled: 9/8/2017 11:20

Sample ID: 17I0319-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:44	TG
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:44	TG
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:44	TG
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:44	TG
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:44	TG
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:44	TG
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:44	TG
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:44	TG
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 6:44	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.5	30-150		9/21/17 6:44
Decachlorobiphenyl [2]	89.8	30-150		9/21/17 6:44
Tetrachloro-m-xylene [1]	95.8	30-150		9/21/17 6:44
Tetrachloro-m-xylene [2]	98.0	30-150		9/21/17 6:44

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-7-3 Sampled: 9/8/2017 11:20

Sample ID: 17I0319-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.2		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-7-4 Sampled: 9/8/2017 11:21

Sample ID: 17I0319-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 7:50	TG
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 7:50	TG
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 7:50	TG
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 7:50	TG
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 7:50	TG
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 7:50	TG
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 7:50	TG
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 7:50	TG
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 7:50	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.3	30-150		9/21/17 7:50
Decachlorobiphenyl [2]	96.8	30-150		9/21/17 7:50
Tetrachloro-m-xylene [1]	101	30-150		9/21/17 7:50
Tetrachloro-m-xylene [2]	99.5	30-150		9/21/17 7:50

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-7-4 Sampled: 9/8/2017 11:21

Sample ID: 17I0319-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.5		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-17-1 Sampled: 9/8/2017 11:19

Sample ID: 17I0319-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:07	TG
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:07	TG
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:07	TG
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:07	TG
Aroclor-1248 [1]	0.35	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:07	TG
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:07	TG
Aroclor-1260 [1]	0.17	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:07	TG
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:07	TG
Aroclor-1268 [2]	0.13	0.085	mg/Kg dry	4	P-02	SW-846 8082A	9/15/17	9/21/17 8:07	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.3	30-150		9/21/17 8:07
Decachlorobiphenyl [2]	76.3	30-150		9/21/17 8:07
Tetrachloro-m-xylene [1]	83.7	30-150		9/21/17 8:07
Tetrachloro-m-xylene [2]	86.3	30-150		9/21/17 8:07

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-17-1 Sampled: 9/8/2017 11:19

Sample ID: 17I0319-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-17-2 Sampled: 9/8/2017 11:20

Sample ID: 17I0319-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:25	TG
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:25	TG
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:25	TG
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:25	TG
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:25	TG
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:25	TG
Aroclor-1260 [2]	0.20	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:25	TG
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:25	TG
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:25	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.0	30-150		9/21/17 8:25
Decachlorobiphenyl [2]	92.5	30-150		9/21/17 8:25
Tetrachloro-m-xylene [1]	98.5	30-150		9/21/17 8:25
Tetrachloro-m-xylene [2]	101	30-150		9/21/17 8:25

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-17-2 Sampled: 9/8/2017 11:20

Sample ID: 17I0319-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	65	11	mg/Kg dry	1		CTDEP ETPH	9/15/17	9/19/17 3:02	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	53.0	50-150		9/19/17 3:02

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-17-2 Sampled: 9/8/2017 11:20

Sample ID: 17I0319-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-17-3 Sampled: 9/8/2017 11:21

Sample ID: 17I0319-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:43	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:43	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:43	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:43	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:43	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:43	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:43	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:43	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 8:43	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.1	30-150		9/21/17 8:43
Decachlorobiphenyl [2]	93.1	30-150		9/21/17 8:43
Tetrachloro-m-xylene [1]	98.4	30-150		9/21/17 8:43
Tetrachloro-m-xylene [2]	102	30-150		9/21/17 8:43

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-17-3 Sampled: 9/8/2017 11:21

Sample ID: 17I0319-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-17-4 Sampled: 9/8/2017 11:22

Sample ID: 17I0319-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:00	TG
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:00	TG
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:00	TG
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:00	TG
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:00	TG
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:00	TG
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:00	TG
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:00	TG
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:00	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.4	30-150		9/21/17 9:00
Decachlorobiphenyl [2]	91.1	30-150		9/21/17 9:00
Tetrachloro-m-xylene [1]	95.1	30-150		9/21/17 9:00
Tetrachloro-m-xylene [2]	97.4	30-150		9/21/17 9:00

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-17-4 Sampled: 9/8/2017 11:22

Sample ID: 17I0319-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-8-1 Sampled: 9/8/2017 11:33

Sample ID: 17I0319-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:18	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:18	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:18	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:18	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:18	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:18	TG
Aroclor-1260 [2]	0.31	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:18	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:18	TG
Aroclor-1268 [1]	0.28	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:18	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.1	30-150		9/21/17 9:18
Decachlorobiphenyl [2]	89.7	30-150		9/21/17 9:18
Tetrachloro-m-xylene [1]	92.8	30-150		9/21/17 9:18
Tetrachloro-m-xylene [2]	94.7	30-150		9/21/17 9:18

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-8-1 Sampled: 9/8/2017 11:33

Sample ID: 17I0319-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	62.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-8-2 Sampled: 9/8/2017 11:34

Sample ID: 17I0319-16

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.29	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Acenaphthene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Acenaphthylene	0.38	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Acenaphthylene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Anthracene	1.4	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Anthracene	1.3	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Benzo(a)anthracene	4.9	0.20	mg/Kg dry	1	E	SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Benzo(a)anthracene	4.6	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Benzo(a)pyrene	4.0	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Benzo(a)pyrene	3.6	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Benzo(b)fluoranthene	5.1	0.20	mg/Kg dry	1	E	SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Benzo(b)fluoranthene	4.6	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Benzo(g,h,i)perylene	2.1	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Benzo(g,h,i)perylene	1.9	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Benzo(k)fluoranthene	1.8	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Benzo(k)fluoranthene	1.9	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Chrysene	4.5	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Chrysene	4.2	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Dibenz(a,h)anthracene	0.65	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Dibenz(a,h)anthracene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Fluoranthene	12	0.20	mg/Kg dry	1	E	SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Fluoranthene	10	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Fluorene	0.39	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Fluorene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Indeno(1,2,3-cd)pyrene	2.4	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Indeno(1,2,3-cd)pyrene	2.1	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
2-Methylnaphthalene	0.21	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
2-Methylnaphthalene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Naphthalene	0.80	0.20	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Naphthalene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Phenanthrene	8.7	0.20	mg/Kg dry	1	E	SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Phenanthrene	7.1	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL
Pyrene	9.9	0.20	mg/Kg dry	1	E	SW-846 8270D	9/15/17	9/18/17 14:34	BGL
Pyrene	8.6	1.0	mg/Kg dry	5		SW-846 8270D	9/15/17	9/18/17 17:54	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	52.8	30-130		9/18/17 14:34
Nitrobenzene-d5	50.7	30-130		9/18/17 17:54
2-Fluorobiphenyl	66.0	30-130		9/18/17 14:34
2-Fluorobiphenyl	61.6	30-130		9/18/17 17:54
p-Terphenyl-d14	73.4	30-130		9/18/17 14:34
p-Terphenyl-d14	68.7	30-130		9/18/17 17:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-8-2 Sampled: 9/8/2017 11:34

Sample ID: 17I0319-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:36	TG
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:36	TG
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:36	TG
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:36	TG
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:36	TG
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:36	TG
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:36	TG
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:36	TG
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:36	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.5	30-150		9/21/17 9:36
Decachlorobiphenyl [2]	100	30-150		9/21/17 9:36
Tetrachloro-m-xylene [1]	98.5	30-150		9/21/17 9:36
Tetrachloro-m-xylene [2]	98.9	30-150		9/21/17 9:36

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-8-2 Sampled: 9/8/2017 11:34

Sample ID: 17I0319-16

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	230	60	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 2:36	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	52.1	50-150		9/20/17 2:36

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-8-2 Sampled: 9/8/2017 11:34

Sample ID: 17I0319-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.7		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-8-3 Sampled: 9/8/2017 11:35

Sample ID: 17I0319-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:53	TG
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:53	TG
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:53	TG
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:53	TG
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:53	TG
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:53	TG
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:53	TG
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:53	TG
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 9:53	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.6	30-150		9/21/17 9:53
Decachlorobiphenyl [2]	94.4	30-150		9/21/17 9:53
Tetrachloro-m-xylene [1]	98.3	30-150		9/21/17 9:53
Tetrachloro-m-xylene [2]	99.8	30-150		9/21/17 9:53

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-8-3 Sampled: 9/8/2017 11:35

Sample ID: 17I0319-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-8-4 Sampled: 9/8/2017 11:36

Sample ID: 17I0319-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:11	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:11	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:11	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:11	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:11	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:11	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:11	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:11	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:11	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.3	30-150		9/21/17 10:11
Decachlorobiphenyl [2]	113	30-150		9/21/17 10:11
Tetrachloro-m-xylene [1]	99.2	30-150		9/21/17 10:11
Tetrachloro-m-xylene [2]	97.1	30-150		9/21/17 10:11

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-8-4 Sampled: 9/8/2017 11:36

Sample ID: 17I0319-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-16-1 Sampled: 9/8/2017 11:35

Sample ID: 17I0319-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:29	TG
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:29	TG
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:29	TG
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:29	TG
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:29	TG
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:29	TG
Aroclor-1260 [2]	0.16	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:29	TG
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:29	TG
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:29	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.9	30-150		9/21/17 10:29
Decachlorobiphenyl [2]	88.0	30-150		9/21/17 10:29
Tetrachloro-m-xylene [1]	92.2	30-150		9/21/17 10:29
Tetrachloro-m-xylene [2]	94.6	30-150		9/21/17 10:29

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-16-1 Sampled: 9/8/2017 11:35

Sample ID: 17I0319-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-16-2 Sampled: 9/8/2017 11:36

Sample ID: 17I0319-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:46	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:46	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:46	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:46	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:46	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:46	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:46	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:46	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 10:46	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.0	30-150		9/21/17 10:46
Decachlorobiphenyl [2]	95.4	30-150		9/21/17 10:46
Tetrachloro-m-xylene [1]	98.2	30-150		9/21/17 10:46
Tetrachloro-m-xylene [2]	98.0	30-150		9/21/17 10:46

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-16-2 Sampled: 9/8/2017 11:36

Sample ID: 17I0319-20

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	100	12	mg/Kg dry	1		CTDEP ETPH	9/15/17	9/19/17 3:37	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	57.4	50-150		9/19/17 3:37

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0319

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-16-2 Sampled: 9/8/2017 11:36

Sample ID: 17I0319-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0319-04 [WS-AOC-6-SO-13-2]	B186332	30.1	1.00	09/15/17
17I0319-08 [WS-AOC-6-SO-7-2]	B186332	30.0	1.00	09/15/17
17I0319-12 [WS-AOC-6-SO-17-2]	B186332	30.0	1.00	09/15/17
17I0319-16 [WS-AOC-6-SO-8-2]	B186332	30.1	1.00	09/15/17
17I0319-20 [WS-AOC-6-SO-16-2]	B186332	30.0	1.00	09/15/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0319-01 [WS-AOC-6-SO-5-3]	B186207	09/14/17
17I0319-02 [WS-AOC-6-SO-5-4]	B186207	09/14/17
17I0319-03 [WS-AOC-6-SO-13-1]	B186207	09/14/17
17I0319-04 [WS-AOC-6-SO-13-2]	B186207	09/14/17
17I0319-05 [WS-AOC-6-SO-13-3]	B186207	09/14/17
17I0319-06 [WS-AOC-6-SO-13-4]	B186207	09/14/17
17I0319-07 [WS-AOC-6-SO-7-1]	B186207	09/14/17
17I0319-08 [WS-AOC-6-SO-7-2]	B186207	09/14/17
17I0319-09 [WS-AOC-6-SO-7-3]	B186207	09/14/17
17I0319-10 [WS-AOC-6-SO-7-4]	B186207	09/14/17
17I0319-11 [WS-AOC-6-SO-17-1]	B186207	09/14/17
17I0319-12 [WS-AOC-6-SO-17-2]	B186207	09/14/17
17I0319-13 [WS-AOC-6-SO-17-3]	B186207	09/14/17
17I0319-14 [WS-AOC-6-SO-17-4]	B186207	09/14/17
17I0319-15 [WS-AOC-6-SO-8-1]	B186207	09/14/17
17I0319-16 [WS-AOC-6-SO-8-2]	B186207	09/14/17
17I0319-17 [WS-AOC-6-SO-8-3]	B186207	09/14/17
17I0319-18 [WS-AOC-6-SO-8-4]	B186207	09/14/17
17I0319-19 [WS-AOC-6-SO-16-1]	B186207	09/14/17
17I0319-20 [WS-AOC-6-SO-16-2]	B186207	09/14/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0319-01 [WS-AOC-6-SO-5-3]	B186355	10.7	10.0	09/15/17
17I0319-02 [WS-AOC-6-SO-5-4]	B186355	10.2	10.0	09/15/17
17I0319-03 [WS-AOC-6-SO-13-1]	B186355	10.6	10.0	09/15/17
17I0319-04 [WS-AOC-6-SO-13-2]	B186355	10.3	10.0	09/15/17
17I0319-05 [WS-AOC-6-SO-13-3]	B186355	10.7	10.0	09/15/17
17I0319-06 [WS-AOC-6-SO-13-4]	B186355	10.5	10.0	09/15/17
17I0319-07 [WS-AOC-6-SO-7-1]	B186355	10.2	10.0	09/15/17
17I0319-08 [WS-AOC-6-SO-7-2]	B186355	10.4	10.0	09/15/17
17I0319-09 [WS-AOC-6-SO-7-3]	B186355	10.2	10.0	09/15/17
17I0319-10 [WS-AOC-6-SO-7-4]	B186355	10.6	10.0	09/15/17
17I0319-11 [WS-AOC-6-SO-17-1]	B186355	10.4	10.0	09/15/17
17I0319-12 [WS-AOC-6-SO-17-2]	B186355	10.5	10.0	09/15/17
17I0319-13 [WS-AOC-6-SO-17-3]	B186355	10.6	10.0	09/15/17
17I0319-14 [WS-AOC-6-SO-17-4]	B186355	10.4	10.0	09/15/17
17I0319-15 [WS-AOC-6-SO-8-1]	B186355	10.3	10.0	09/15/17
17I0319-16 [WS-AOC-6-SO-8-2]	B186355	10.2	10.0	09/15/17
17I0319-17 [WS-AOC-6-SO-8-3]	B186355	10.6	10.0	09/15/17
17I0319-18 [WS-AOC-6-SO-8-4]	B186355	10.7	10.0	09/15/17
17I0319-19 [WS-AOC-6-SO-16-1]	B186355	10.3	10.0	09/15/17
17I0319-20 [WS-AOC-6-SO-16-2]	B186355	10.6	10.0	09/15/17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0319-16 [WS-AOC-6-SO-8-2]	B186330	30.0	1.00	09/15/17
17I0319-16RE1 [WS-AOC-6-SO-8-2]	B186330	30.0	1.00	09/15/17

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186330 - SW-846 3546										
Blank (B186330-BLK1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.21*		mg/Kg wet	3.33		66.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.58*		mg/Kg wet	3.33		77.3	30-130			
Surrogate: p-Terphenyl-d14	*3.26*		mg/Kg wet	3.33		97.9	30-130			
LCS (B186330-BS1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	0.884	0.17	mg/Kg wet	1.67		53.1	40-140			
Acenaphthylene	0.912	0.17	mg/Kg wet	1.67		54.7	40-140			
Anthracene	0.978	0.17	mg/Kg wet	1.67		58.7	40-140			
Benzo(a)anthracene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Benzo(a)pyrene	0.993	0.17	mg/Kg wet	1.67		59.6	40-140			
Benzo(b)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Benzo(g,h,i)perylene	1.03	0.17	mg/Kg wet	1.67		62.1	40-140			
Benzo(k)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Chrysene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Dibenz(a,h)anthracene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140			
Fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Fluorene	0.994	0.17	mg/Kg wet	1.67		59.7	40-140			
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140			
2-Methylnaphthalene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
Naphthalene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140			
Phenanthrene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140			
Pyrene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140			
Surrogate: Nitrobenzene-d5	*2.22*		mg/Kg wet	3.33		66.7	30-130			
Surrogate: 2-Fluorobiphenyl	*2.43*		mg/Kg wet	3.33		73.0	30-130			
Surrogate: p-Terphenyl-d14	*2.58*		mg/Kg wet	3.33		77.3	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186330 - SW-846 3546										
LCS Dup (B186330-BSD1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	8.72	30	
Acenaphthylene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140	8.17	30	
Anthracene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140	6.98	30	
Benzo(a)anthracene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	10.1	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	9.44	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	5.30	30	
Benzo(g,h,i)perylene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	7.53	30	
Benzo(k)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.4	40-140	6.28	30	
Chrysene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	9.46	30	
Dibenz(a,h)anthracene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140	7.48	30	
Fluoranthene	1.10	0.17	mg/Kg wet	1.67		65.7	40-140	6.70	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	6.74	30	
Indeno(1,2,3-cd)pyrene	1.16	0.17	mg/Kg wet	1.67		69.4	40-140	10.7	30	
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.5	40-140	3.68	30	
Naphthalene	1.02	0.17	mg/Kg wet	1.67		61.0	40-140	1.04	30	
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	5.63	30	
Pyrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	7.85	30	
Surrogate: Nitrobenzene-d5	*2.21*		mg/Kg wet	3.33		66.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.53*		mg/Kg wet	3.33		75.8	30-130			
Surrogate: p-Terphenyl-d14	*3.76*		mg/Kg wet	3.33		113	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186355 - SW-846 3540C										
Blank (B186355-BLK1)				Prepared: 09/15/17 Analyzed: 09/21/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.201*		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.188*		mg/Kg wet	0.200		93.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.194*		mg/Kg wet	0.200		97.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.193*		mg/Kg wet	0.200		96.7	30-150			
LCS (B186355-BS1)				Prepared: 09/15/17 Analyzed: 09/21/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		96.6	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		87.5	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		84.6	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		76.5	40-140			
Surrogate: Decachlorobiphenyl	*0.192*		mg/Kg wet	0.200		96.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.182*		mg/Kg wet	0.200		90.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.194*		mg/Kg wet	0.200		97.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.191*		mg/Kg wet	0.200		95.6	30-150			
LCS Dup (B186355-BSD1)				Prepared: 09/15/17 Analyzed: 09/21/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		97.4	40-140	0.768	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		92.1	40-140	5.11	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		87.2	40-140	3.08	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		77.2	40-140	0.874	30	
Surrogate: Decachlorobiphenyl	*0.201*		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.188*		mg/Kg wet	0.200		93.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.199*		mg/Kg wet	0.200		99.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.197*		mg/Kg wet	0.200		98.5	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186355 - SW-846 3540C										
Matrix Spike (B186355-MS1)		**Source: 17I0319-01**		Prepared: 09/15/17 Analyzed: 09/21/17						
Aroclor-1016	0.22	0.090	mg/Kg dry	0.226	ND	95.4	40-140			
Aroclor-1016 [2C]	0.21	0.090	mg/Kg dry	0.226	ND	93.9	40-140			
Aroclor-1260	0.26	0.090	mg/Kg dry	0.226	0.096	73.2	40-140			
Aroclor-1260 [2C]	0.26	0.090	mg/Kg dry	0.226	0.10	68.4	40-140			
Surrogate: Decachlorobiphenyl	*0.202*		mg/Kg dry	0.226		89.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.197*		mg/Kg dry	0.226		87.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.178*		mg/Kg dry	0.226		78.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.184*		mg/Kg dry	0.226		81.5	30-150			
Matrix Spike Dup (B186355-MSD1)		**Source: 17I0319-01**		Prepared: 09/15/17 Analyzed: 09/21/17						
Aroclor-1016	0.25	0.090	mg/Kg dry	0.226	ND	109	40-140	13.0	50	
Aroclor-1016 [2C]	0.23	0.090	mg/Kg dry	0.226	ND	103	40-140	8.98	50	
Aroclor-1260	0.28	0.090	mg/Kg dry	0.226	0.096	80.8	40-140	6.40	50	
Aroclor-1260 [2C]	0.27	0.090	mg/Kg dry	0.226	0.10	74.7	40-140	5.43	50	
Surrogate: Decachlorobiphenyl	*0.217*		mg/Kg dry	0.226		96.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.211*		mg/Kg dry	0.226		93.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.224*		mg/Kg dry	0.226		99.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.228*		mg/Kg dry	0.226		101	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186332 - SW-846 3546										
Blank (B186332-BLK1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.07*		mg/Kg wet	3.33		92.1	50-150			
LCS (B186332-BS1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	28.2	10	mg/Kg wet	33.3		84.7	60-120			
Surrogate: o-Terphenyl	*3.55*		mg/Kg wet	3.33		106	50-150			
LCS Dup (B186332-BSD1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	27.2	10	mg/Kg wet	33.3		81.5	60-120	3.82	30	
Surrogate: o-Terphenyl	*3.40*		mg/Kg wet	3.33		102	50-150			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186207 - % Solids										
Duplicate (B186207-DUP5)		**Source: 17I0319-01**		Prepared: 09/14/17 Analyzed: 09/15/17						
% Solids	86.3		% Wt		86.9			0.693	20	
Duplicate (B186207-DUP6)		**Source: 17I0319-02**		Prepared: 09/14/17 Analyzed: 09/15/17						
% Solids	79.1		% Wt		83.3			5.17	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-5-3

Lab Sample ID: 17I0319-01

Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.096	
	2	0.000	-0.030	0.030	0.10	4.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-13-1

Lab Sample ID: 17I0319-03

Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	2.3	
	2	0.000	-0.030	0.030	2.1	9.1
Aroclor-1268	1	0.000	-0.030	0.030	9.6	
	2	0.000	-0.030	0.030	7.6	23.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-13-2

Lab Sample ID: 17I0319-04

Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1268	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.12	8.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-7-1

Lab Sample ID: 17I0319-07

Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.095	
	2	0.000	-0.030	0.030	0.10	5.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-7-2

Lab Sample ID: 17I0319-08

Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.22	
	2	0.000	-0.030	0.030	0.22	0.0
Aroclor-1268	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.22	8.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-17-1

Lab Sample ID: 17I0319-11

Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.35	
	2	0.000	-0.030	0.030	0.30	15.4
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.15	18.2
Aroclor-1268	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.13	42.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-17-2

Lab Sample ID: 17I0319-12

Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-8-1

Lab Sample ID: 17I0319-15

Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.30	
	2	0.000	-0.030	0.030	0.31	3.3
Aroclor-1268	1	0.000	-0.030	0.030	0.28	
	2	0.000	-0.030	0.030	0.27	3.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-16-1

Lab Sample ID: 17I0319-19

Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
E	Reported result is estimated. Value reported over verified calibration range.
P-02	Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17I0319

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soxhlet	ETPH										# of Containers / [2] Preservation Code / [3] Container Code
1	WS-AOC-6-SO-5-3	9/8/17	1047		X	S	U	X											
2	WS-AOC-6-SO-5-4		1048					X											
3	WS-AOC-6-SO-13-1		1057					X											
4	WS-AOC-6-SO-13-2		1058					X	X										
5	WS-AOC-6-SO-13-3		1059					X											
6	WS-AOC-6-SO-13-4		1100					X											
7	WS-AOC-6-SO-7-1		1119					X											
8	WS-AOC-6-SO-7-2		1119					X	X										
9	WS-AOC-6-SO-7-3		1120					X											
10	WS-AOC-6-SO-7-4		1121					X											

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Relinquished by: (signature)	Date/Time: 9/8/17 1520
Received by: (signature)	Date/Time: 9/8/17 1520
Relinquished by: (signature)	Date/Time: 9/8/17 1540
Received by: (signature)	Date/Time: 9/8/17 15.45
Relinquished by: (signature)	Date/Time: 9/8/17 17.04
Received by: (signature)	Date/Time: 9/8/17 1706

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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17I0319

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCB, Soxhlet	ETPH	PAHs	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC-6-SO-17-1	9/8/17	1119		X	S	U	X					
12	WS-AOC-6-SO-17-2		1120					X	X				
13	WS-AOC-6-SO-17-3		1121					X					
14	WS-AOC-6-SO-17-4		1122					X					
15	WS-AOC-6-SO-S-1		1133					X					
16	WS-AOC-6-SO-S-2		1134					X	X	X			
17	WS-AOC-6-SO-S-3		1135					X					
18	WS-AOC-6-SO-S-4		1136					X					
19	WS-AOC-6-SO-16-1		1135					X					
20	WS-AOC-6-SO-16-2		1136					X	X				

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/8/17 1520
Received by: (signature)	Date/Time: 9/8/17 1520
Relinquished by: (signature)	Date/Time: 9/8/17 1540
Received by: (signature)	Date/Time: 9/8/17 15:45
Relinquished by: (signature)	Date/Time: 9/8/17 17:05
Received by: (signature)	Date/Time: 9/8/17 1708

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 9/8/17 Time 1708

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____
By Gun # 1 Actual Temp - 3.3, 5.6

Were samples within Temperature? 2-6°C T By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? N/A Who was notified? ____

Are there Rushes? N/A Who was notified? ____

Are there Short Holds? N/A Who was notified? ____

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? N/A

Proper Media/Containers Used? T Is splitting samples required? N/A

Were trip blanks received? N/A On COC? N/A

Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	20
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919035.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples
17I0242-15@20X
17I0244-05@20X
17I0244-14@20X
17I0320-19@5X
17I0321-05@5X
17I0321-08@5X
17I0242-06@20X
17I0242-09@20X
17I0241-04@20X
17I0241-13@20X
17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919081.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples
17I0531-03
17I0531-04
17I0656-01
17I0378-12@5X
17I0378-14@10X
17I0319-08@5X
17I0319-16@5X
17I0320-08@5X
17I0320-12@5X
17I0321-02@20X
17I0455-01@20X
17I0531-01
17I0531-02

D:\HPCHEM\1\DATA\A091917.SEC\A0919165.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0919165.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	581953	610650	-5
c - 10	1.62	593472	610650	-3
c - 12	2.34	610263	610650	0
c - 14	3.01	616782	610650	1
c - 16	3.61	626257	610650	3
c - 18	4.23	613483	610650	0
o-Terphenyl	4.51	680975	610650	
c - 20	4.83	616619	610650	1
c - 22	5.33	622698	610650	2
c - 24	5.77	580341	610650	-5
c - 26	6.16	612913	610650	0
c - 28	6.52	610060	610650	0
c - 30	6.85	612659	610650	0
c - 32	7.16	604431	610650	-1
c - 34	7.45	632261	610650	4
c - 36	7.76	625559	610650	2

* One compound allowed %D <= 50%

Samples

17I0244-08@25X
17I0244-17@50X
17I0531-05@10X
17I0242-18@5X

D:\HPCHEM\1\DATA\A091917\A0919168.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0919168.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	558217	618025	-10
c - 10	1.64	570347	618025	-8
c - 12	2.37	590423	618025	-4
c - 14	3.04	604014	618025	-2
c - 16	3.65	622199	618025	1
c - 18	4.28	620256	618025	0
o-Terphenyl	4.56	698283	618025	
c - 20	4.89	633684	618025	3
c - 22	5.39	649827	618025	5
c - 24	5.83	613392	618025	-1
c - 26	6.23	650665	618025	5
c - 28	6.59	645040	618025	4
c - 30	6.92	639031	618025	3
c - 32	7.23	621839	618025	1
c - 34	7.53	625161	618025	1
c - 36	7.87	626287	618025	1

* One compound allowed %D <= 50%

Samples

17I0539-05@5X
17I0319-04@25X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0319

Laboratory Sample ID(s):

17I0319-01 thru 17I0319-20

Sample Date(s):

09/08/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/21/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 22, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0320

Enclosed are results of analyses for samples received by the laboratory on September 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0320

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-6-SO-16-3	17I0320-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-16-4	17I0320-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-10-1	17I0320-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-10-2	17I0320-04	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-10-3	17I0320-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-10-4	17I0320-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-15-1	17I0320-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-15-2	17I0320-08	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-15-3	17I0320-09	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC-6-SO-15-4	17I0320-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-9-1	17I0320-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-9-2	17I0320-12	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-9-3	17I0320-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-9-4	17I0320-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-14-1	17I0320-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-14-2	17I0320-16	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-14-3	17I0320-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-14-4	17I0320-18	Soil		SM 2540G	
				SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0320

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-12W-SO-109-1	17I0320-19	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC-12W-SO-109-2	17I0320-20	Soil		SM 2540G	
				SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Aroclor-1260

B186354-MS1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-16-3 Sampled: 9/8/2017 11:37

Sample ID: 17I0320-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.3	30-150		9/21/17 19:49
Decachlorobiphenyl [2]	110	30-150		9/21/17 19:49
Tetrachloro-m-xylene [1]	93.5	30-150		9/21/17 19:49
Tetrachloro-m-xylene [2]	91.0	30-150		9/21/17 19:49

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-16-3 Sampled: 9/8/2017 11:37

Sample ID: 17I0320-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-16-4 Sampled: 9/8/2017 11:38

Sample ID: 17I0320-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.1	30-150		9/21/17 20:06
Decachlorobiphenyl [2]	95.7	30-150		9/21/17 20:06
Tetrachloro-m-xylene [1]	88.4	30-150		9/21/17 20:06
Tetrachloro-m-xylene [2]	85.9	30-150		9/21/17 20:06

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-16-4 Sampled: 9/8/2017 11:38

Sample ID: 17I0320-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-1 Sampled: 9/8/2017 11:53

Sample ID: 17I0320-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1260 [1]	0.34	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.9	30-150		9/21/17 20:23
Decachlorobiphenyl [2]	105	30-150		9/21/17 20:23
Tetrachloro-m-xylene [1]	99.0	30-150		9/21/17 20:23
Tetrachloro-m-xylene [2]	97.4	30-150		9/21/17 20:23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-1 Sampled: 9/8/2017 11:53

Sample ID: 17I0320-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	67.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-2 Sampled: 9/8/2017 11:54

Sample ID: 17I0320-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.2	30-150		9/21/17 20:41
Decachlorobiphenyl [2]	93.2	30-150		9/21/17 20:41
Tetrachloro-m-xylene [1]	92.6	30-150		9/21/17 20:41
Tetrachloro-m-xylene [2]	90.2	30-150		9/21/17 20:41

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-2 Sampled: 9/8/2017 11:54

Sample ID: 17I0320-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	58	12	mg/Kg dry	1		CTDEP ETPH	9/15/17	9/19/17 3:55	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	55.1	50-150		9/19/17 3:55

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-2 Sampled: 9/8/2017 11:54

Sample ID: 17I0320-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-3 Sampled: 9/8/2017 11:55

Sample ID: 17I0320-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.2	30-150		9/21/17 20:58
Decachlorobiphenyl [2]	103	30-150		9/21/17 20:58
Tetrachloro-m-xylene [1]	97.6	30-150		9/21/17 20:58
Tetrachloro-m-xylene [2]	95.3	30-150		9/21/17 20:58

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-3 Sampled: 9/8/2017 11:55

Sample ID: 17I0320-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-4 Sampled: 9/8/2017 11:56

Sample ID: 17I0320-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.8	30-150		9/21/17 21:15
Decachlorobiphenyl [2]	107	30-150		9/21/17 21:15
Tetrachloro-m-xylene [1]	98.5	30-150		9/21/17 21:15
Tetrachloro-m-xylene [2]	96.4	30-150		9/21/17 21:15

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-4 Sampled: 9/8/2017 11:56

Sample ID: 17I0320-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-1 Sampled: 9/8/2017 11:57

Sample ID: 17I0320-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1221 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1232 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1242 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1248 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1254 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1260 [2]	2.9	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1262 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1268 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		9/22/17 9:19
Decachlorobiphenyl [2]	114	30-150		9/22/17 9:19
Tetrachloro-m-xylene [1]	106	30-150		9/22/17 9:19
Tetrachloro-m-xylene [2]	99.9	30-150		9/22/17 9:19

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-1 Sampled: 9/8/2017 11:57

Sample ID: 17I0320-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.2		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-2 Sampled: 9/8/2017 11:58

Sample ID: 17I0320-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1260 [1]	0.51	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.4	30-150		9/21/17 21:50
Decachlorobiphenyl [2]	93.1	30-150		9/21/17 21:50
Tetrachloro-m-xylene [1]	81.0	30-150		9/21/17 21:50
Tetrachloro-m-xylene [2]	78.3	30-150		9/21/17 21:50

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-2 Sampled: 9/8/2017 11:58

Sample ID: 17I0320-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	260	66	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 2:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	54.5	50-150		9/20/17 2:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-2 Sampled: 9/8/2017 11:58

Sample ID: 17I0320-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-3 Sampled: 9/8/2017 11:59

Sample ID: 17I0320-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Acenaphthylene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Benzo(a)anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Benzo(a)pyrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Benzo(b)fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Benzo(g,h,i)perylene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Benzo(k)fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Chrysene	0.28	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Dibenz(a,h)anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Fluoranthene	0.32	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Fluorene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
2-Methylnaphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Naphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Phenanthrene	0.41	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Pyrene	0.24	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	48.0	30-130		9/18/17 14:59
2-Fluorobiphenyl	54.3	30-130		9/18/17 14:59
p-Terphenyl-d14	57.2	30-130		9/18/17 14:59

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-3 Sampled: 9/8/2017 11:59

Sample ID: 17I0320-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.0	30-150		9/21/17 22:07
Decachlorobiphenyl [2]	106	30-150		9/21/17 22:07
Tetrachloro-m-xylene [1]	103	30-150		9/21/17 22:07
Tetrachloro-m-xylene [2]	99.7	30-150		9/21/17 22:07

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-3 Sampled: 9/8/2017 11:59

Sample ID: 17I0320-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-4 Sampled: 9/8/2017 12:00

Sample ID: 17I0320-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.0	30-150		9/21/17 23:11
Decachlorobiphenyl [2]	104	30-150		9/21/17 23:11
Tetrachloro-m-xylene [1]	92.4	30-150		9/21/17 23:11
Tetrachloro-m-xylene [2]	90.1	30-150		9/21/17 23:11

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-4 Sampled: 9/8/2017 12:00

Sample ID: 17I0320-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-1 Sampled: 9/8/2017 12:07

Sample ID: 17I0320-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1260 [2]	0.10	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1268 [2]	0.20	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	108	30-150		9/22/17 16:26
Decachlorobiphenyl [2]	127	30-150		9/22/17 16:26
Tetrachloro-m-xylene [1]	102	30-150		9/22/17 16:26
Tetrachloro-m-xylene [2]	104	30-150		9/22/17 16:26

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-1 Sampled: 9/8/2017 12:07

Sample ID: 17I0320-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.5		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-2 Sampled: 9/8/2017 12:08

Sample ID: 17I0320-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.6	30-150		9/21/17 23:45
Decachlorobiphenyl [2]	107	30-150		9/21/17 23:45
Tetrachloro-m-xylene [1]	99.5	30-150		9/21/17 23:45
Tetrachloro-m-xylene [2]	96.1	30-150		9/21/17 23:45

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-2 Sampled: 9/8/2017 12:08

Sample ID: 17I0320-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	170	58	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 3:12	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	59.6	50-150		9/20/17 3:12

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-2 Sampled: 9/8/2017 12:08

Sample ID: 17I0320-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.2		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-3 Sampled: 9/8/2017 12:09

Sample ID: 17I0320-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.1	30-150		9/22/17 0:02
Decachlorobiphenyl [2]	109	30-150		9/22/17 0:02
Tetrachloro-m-xylene [1]	106	30-150		9/22/17 0:02
Tetrachloro-m-xylene [2]	100	30-150		9/22/17 0:02

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-3 Sampled: 9/8/2017 12:09

Sample ID: 17I0320-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.5		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-4 Sampled: 9/8/2017 12:10

Sample ID: 17I0320-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.6	30-150		9/22/17 0:20
Decachlorobiphenyl [2]	112	30-150		9/22/17 0:20
Tetrachloro-m-xylene [1]	90.2	30-150		9/22/17 0:20
Tetrachloro-m-xylene [2]	85.6	30-150		9/22/17 0:20

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-4 Sampled: 9/8/2017 12:10

Sample ID: 17I0320-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-1 Sampled: 9/8/2017 12:26

Sample ID: 17I0320-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1248 [2]	0.90	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1260 [1]	0.98	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.8	30-150		9/22/17 9:32
Decachlorobiphenyl [2]	86.3	30-150		9/22/17 9:32
Tetrachloro-m-xylene [1]	92.2	30-150		9/22/17 9:32
Tetrachloro-m-xylene [2]	90.0	30-150		9/22/17 9:32

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-1 Sampled: 9/8/2017 12:26

Sample ID: 17I0320-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-2 Sampled: 9/8/2017 12:27

Sample ID: 17I0320-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1248 [1]	0.38	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1254 [1]	ND	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1260 [2]	1.4	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.3	30-150		9/22/17 9:44
Decachlorobiphenyl [2]	103	30-150		9/22/17 9:44
Tetrachloro-m-xylene [1]	91.0	30-150		9/22/17 9:44
Tetrachloro-m-xylene [2]	87.6	30-150		9/22/17 9:44

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-2 Sampled: 9/8/2017 12:27

Sample ID: 17I0320-16

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	89	11	mg/Kg dry	1		CTDEP ETPH	9/15/17	9/19/17 4:47	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	55.4	50-150		9/19/17 4:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-2 Sampled: 9/8/2017 12:27

Sample ID: 17I0320-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-3 Sampled: 9/8/2017 12:28

Sample ID: 17I0320-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.2	30-150		9/22/17 1:11
Decachlorobiphenyl [2]	96.8	30-150		9/22/17 1:11
Tetrachloro-m-xylene [1]	94.6	30-150		9/22/17 1:11
Tetrachloro-m-xylene [2]	92.2	30-150		9/22/17 1:11

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-3 Sampled: 9/8/2017 12:28

Sample ID: 17I0320-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	74.3		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-4 Sampled: 9/8/2017 12:29

Sample ID: 17I0320-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.6	30-150		9/22/17 1:29
Decachlorobiphenyl [2]	103	30-150		9/22/17 1:29
Tetrachloro-m-xylene [1]	98.6	30-150		9/22/17 1:29
Tetrachloro-m-xylene [2]	95.0	30-150		9/22/17 1:29

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-4 Sampled: 9/8/2017 12:29

Sample ID: 17I0320-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-1 Sampled: 9/8/2017 13:04

Sample ID: 17I0320-19

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Acenaphthylene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Anthracene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Benzo(a)anthracene	0.88	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Benzo(a)pyrene	0.84	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Benzo(b)fluoranthene	0.90	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Benzo(g,h,i)perylene	0.47	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Benzo(k)fluoranthene	0.36	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Chrysene	0.77	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Dibenz(a,h)anthracene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Fluoranthene	1.7	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Fluorene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Indeno(1,2,3-cd)pyrene	0.54	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
2-Methylnaphthalene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Naphthalene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Phenanthrene	0.47	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Pyrene	1.6	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	55.7	30-130		9/18/17 15:24
2-Fluorobiphenyl	61.4	30-130		9/18/17 15:24
p-Terphenyl-d14	66.5	30-130		9/18/17 15:24

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-1 Sampled: 9/8/2017 13:04

Sample ID: 17I0320-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.2	30-150		9/22/17 1:46
Decachlorobiphenyl [2]	104	30-150		9/22/17 1:46
Tetrachloro-m-xylene [1]	106	30-150		9/22/17 1:46
Tetrachloro-m-xylene [2]	95.8	30-150		9/22/17 1:46

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-1 Sampled: 9/8/2017 13:04

Sample ID: 17I0320-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	240	85	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/19/17 18:38	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	50.1	50-150		9/19/17 18:38

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-1 Sampled: 9/8/2017 13:04

Sample ID: 17I0320-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	58.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-2 Sampled: 9/8/2017 13:05

Sample ID: 17I0320-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.4	30-150		9/22/17 2:03
Decachlorobiphenyl [2]	106	30-150		9/22/17 2:03
Tetrachloro-m-xylene [1]	93.4	30-150		9/22/17 2:03
Tetrachloro-m-xylene [2]	87.9	30-150		9/22/17 2:03

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-2 Sampled: 9/8/2017 13:05

Sample ID: 17I0320-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	55.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0320-04 [WS-AOC-6-SO-10-2]	B186332	30.1	1.00	09/15/17
17I0320-08 [WS-AOC-6-SO-15-2]	B186332	30.2	1.00	09/15/17
17I0320-12 [WS-AOC-6-SO-9-2]	B186332	30.0	1.00	09/15/17
17I0320-16 [WS-AOC-6-SO-14-2]	B186332	30.1	1.00	09/15/17
17I0320-19 [WS-AOC-12W-SO-109-1]	B186332	30.0	1.00	09/15/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0320-01 [WS-AOC-6-SO-16-3]	B186207	09/14/17
17I0320-02 [WS-AOC-6-SO-16-4]	B186207	09/14/17
17I0320-03 [WS-AOC-6-SO-10-1]	B186207	09/14/17
17I0320-04 [WS-AOC-6-SO-10-2]	B186207	09/14/17
17I0320-05 [WS-AOC-6-SO-10-3]	B186207	09/14/17
17I0320-06 [WS-AOC-6-SO-10-4]	B186207	09/14/17
17I0320-07 [WS-AOC-6-SO-15-1]	B186207	09/14/17
17I0320-08 [WS-AOC-6-SO-15-2]	B186207	09/14/17
17I0320-09 [WS-AOC-6-SO-15-3]	B186207	09/14/17
17I0320-10 [WS-AOC-6-SO-15-4]	B186207	09/14/17
17I0320-11 [WS-AOC-6-SO-9-1]	B186207	09/14/17
17I0320-12 [WS-AOC-6-SO-9-2]	B186207	09/14/17
17I0320-13 [WS-AOC-6-SO-9-3]	B186207	09/14/17
17I0320-14 [WS-AOC-6-SO-9-4]	B186207	09/14/17
17I0320-15 [WS-AOC-6-SO-14-1]	B186207	09/14/17
17I0320-16 [WS-AOC-6-SO-14-2]	B186207	09/14/17
17I0320-17 [WS-AOC-6-SO-14-3]	B186207	09/14/17
17I0320-18 [WS-AOC-6-SO-14-4]	B186207	09/14/17
17I0320-19 [WS-AOC-12W-SO-109-1]	B186207	09/14/17
17I0320-20 [WS-AOC-12W-SO-109-2]	B186207	09/14/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0320-01 [WS-AOC-6-SO-16-3]	B186354	10.6	10.0	09/15/17
17I0320-02 [WS-AOC-6-SO-16-4]	B186354	10.0	10.0	09/15/17
17I0320-03 [WS-AOC-6-SO-10-1]	B186354	10.1	10.0	09/15/17
17I0320-04 [WS-AOC-6-SO-10-2]	B186354	10.4	10.0	09/15/17
17I0320-05 [WS-AOC-6-SO-10-3]	B186354	10.3	10.0	09/15/17
17I0320-06 [WS-AOC-6-SO-10-4]	B186354	10.3	10.0	09/15/17
17I0320-07 [WS-AOC-6-SO-15-1]	B186354	10.6	10.0	09/15/17
17I0320-08 [WS-AOC-6-SO-15-2]	B186354	10.3	10.0	09/15/17
17I0320-09 [WS-AOC-6-SO-15-3]	B186354	10.4	10.0	09/15/17
17I0320-10 [WS-AOC-6-SO-15-4]	B186354	10.7	10.0	09/15/17
17I0320-11 [WS-AOC-6-SO-9-1]	B186354	10.3	10.0	09/15/17
17I0320-12 [WS-AOC-6-SO-9-2]	B186354	10.0	10.0	09/15/17
17I0320-13 [WS-AOC-6-SO-9-3]	B186354	10.2	10.0	09/15/17
17I0320-14 [WS-AOC-6-SO-9-4]	B186354	10.7	10.0	09/15/17
17I0320-15 [WS-AOC-6-SO-14-1]	B186354	10.3	10.0	09/15/17
17I0320-16 [WS-AOC-6-SO-14-2]	B186354	10.7	10.0	09/15/17
17I0320-17 [WS-AOC-6-SO-14-3]	B186354	10.2	10.0	09/15/17
17I0320-18 [WS-AOC-6-SO-14-4]	B186354	10.1	10.0	09/15/17
17I0320-19 [WS-AOC-12W-SO-109-1]	B186354	10.0	10.0	09/15/17
17I0320-20 [WS-AOC-12W-SO-109-2]	B186354	10.5	10.0	09/15/17

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Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0320-09 [WS-AOC-6-SO-15-3]	B186330	30.0	1.00	09/15/17
17I0320-19 [WS-AOC-12W-SO-109-1]	B186330	30.0	1.00	09/15/17

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186330 - SW-846 3546										
Blank (B186330-BLK1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.21*		mg/Kg wet	3.33		66.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.58*		mg/Kg wet	3.33		77.3	30-130			
Surrogate: p-Terphenyl-d14	*3.26*		mg/Kg wet	3.33		97.9	30-130			
LCS (B186330-BS1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	0.884	0.17	mg/Kg wet	1.67		53.1	40-140			
Acenaphthylene	0.912	0.17	mg/Kg wet	1.67		54.7	40-140			
Anthracene	0.978	0.17	mg/Kg wet	1.67		58.7	40-140			
Benzo(a)anthracene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Benzo(a)pyrene	0.993	0.17	mg/Kg wet	1.67		59.6	40-140			
Benzo(b)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Benzo(g,h,i)perylene	1.03	0.17	mg/Kg wet	1.67		62.1	40-140			
Benzo(k)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Chrysene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Dibenz(a,h)anthracene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140			
Fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Fluorene	0.994	0.17	mg/Kg wet	1.67		59.7	40-140			
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140			
2-Methylnaphthalene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
Naphthalene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140			
Phenanthrene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140			
Pyrene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140			
Surrogate: Nitrobenzene-d5	*2.22*		mg/Kg wet	3.33		66.7	30-130			
Surrogate: 2-Fluorobiphenyl	*2.43*		mg/Kg wet	3.33		73.0	30-130			
Surrogate: p-Terphenyl-d14	*2.58*		mg/Kg wet	3.33		77.3	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186330 - SW-846 3546										
LCS Dup (B186330-BSD1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	8.72	30	
Acenaphthylene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140	8.17	30	
Anthracene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140	6.98	30	
Benzo(a)anthracene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	10.1	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	9.44	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	5.30	30	
Benzo(g,h,i)perylene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	7.53	30	
Benzo(k)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.4	40-140	6.28	30	
Chrysene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	9.46	30	
Dibenz(a,h)anthracene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140	7.48	30	
Fluoranthene	1.10	0.17	mg/Kg wet	1.67		65.7	40-140	6.70	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	6.74	30	
Indeno(1,2,3-cd)pyrene	1.16	0.17	mg/Kg wet	1.67		69.4	40-140	10.7	30	
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.5	40-140	3.68	30	
Naphthalene	1.02	0.17	mg/Kg wet	1.67		61.0	40-140	1.04	30	
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	5.63	30	
Pyrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	7.85	30	
Surrogate: Nitrobenzene-d5	*2.21*		mg/Kg wet	3.33		66.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.53*		mg/Kg wet	3.33		75.8	30-130			
Surrogate: p-Terphenyl-d14	*3.76*		mg/Kg wet	3.33		113	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186354 - SW-846 3540C										
Blank (B186354-BLK1)				Prepared: 09/15/17 Analyzed: 09/21/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.171*		mg/Kg wet	0.200		85.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.199*		mg/Kg wet	0.200		99.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.185*		mg/Kg wet	0.200		92.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.184*		mg/Kg wet	0.200		92.0	30-150			
LCS (B186354-BS1)				Prepared: 09/15/17 Analyzed: 09/21/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.5	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.6	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		81.4	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.4	40-140			
Surrogate: Decachlorobiphenyl	*0.191*		mg/Kg wet	0.200		95.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.223*		mg/Kg wet	0.200		111	30-150			
Surrogate: Tetrachloro-m-xylene	*0.194*		mg/Kg wet	0.200		97.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.192*		mg/Kg wet	0.200		96.2	30-150			
LCS Dup (B186354-BSD1)				Prepared: 09/15/17 Analyzed: 09/21/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		78.7	40-140	7.08	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.2	40-140	7.30	30	
Aroclor-1260	0.14	0.020	mg/Kg wet	0.200		72.0	40-140	12.2	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.0	40-140	10.9	30	
Surrogate: Decachlorobiphenyl	*0.169*		mg/Kg wet	0.200		84.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.197*		mg/Kg wet	0.200		98.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.178*		mg/Kg wet	0.200		88.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.178*		mg/Kg wet	0.200		89.2	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B186354 - SW-846 3540C											
Matrix Spike (B186354-MS1)		**Source: 17I0320-03**		Prepared: 09/15/17 Analyzed: 09/22/17							
Aroclor-1016	0.32	0.12	mg/Kg dry	0.294	ND	108		40-140			
Aroclor-1016 [2C]	0.32	0.12	mg/Kg dry	0.294	ND	108		40-140			
Aroclor-1260	0.76	0.12	mg/Kg dry	0.294	0.34	**143**	*	40-140			L-07
Aroclor-1260 [2C]	0.74	0.12	mg/Kg dry	0.294	0.33	140		40-140			
Surrogate: Decachlorobiphenyl	*0.265*		mg/Kg dry	0.294		90.0		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.306*		mg/Kg dry	0.294		104		30-150			
Surrogate: Tetrachloro-m-xylene	*0.282*		mg/Kg dry	0.294		96.0		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.272*		mg/Kg dry	0.294		92.5		30-150			
Matrix Spike Dup (B186354-MSD1)		**Source: 17I0320-03**		Prepared: 09/15/17 Analyzed: 09/22/17							
Aroclor-1016	0.34	0.12	mg/Kg dry	0.299	ND	113		40-140	6.37	50	
Aroclor-1016 [2C]	0.34	0.12	mg/Kg dry	0.299	ND	114		40-140	6.62	50	
Aroclor-1260	0.63	0.12	mg/Kg dry	0.299	0.34	97.0		40-140	18.7	50	
Aroclor-1260 [2C]	0.61	0.12	mg/Kg dry	0.299	0.33	95.4		40-140	18.7	50	
Surrogate: Decachlorobiphenyl	*0.255*		mg/Kg dry	0.299		85.4		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.298*		mg/Kg dry	0.299		99.8		30-150			
Surrogate: Tetrachloro-m-xylene	*0.296*		mg/Kg dry	0.299		99.3		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.286*		mg/Kg dry	0.299		95.8		30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186332 - SW-846 3546										
Blank (B186332-BLK1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.07*		mg/Kg wet	3.33		92.1	50-150			
LCS (B186332-BS1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	28.2	10	mg/Kg wet	33.3		84.7	60-120			
Surrogate: o-Terphenyl	*3.55*		mg/Kg wet	3.33		106	50-150			
LCS Dup (B186332-BSD1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	27.2	10	mg/Kg wet	33.3		81.5	60-120	3.82	30	
Surrogate: o-Terphenyl	*3.40*		mg/Kg wet	3.33		102	50-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-10-1

Lab Sample ID: 17I0320-03

Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.34	
	2	0.000	-0.030	0.030	0.33	3.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-15-1

Lab Sample ID: 17I0320-07

Date(s) Analyzed: 09/22/2017 09/22/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	2.9	
	2	0.000	-0.030	0.030	2.9	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-15-2

Lab Sample ID: 17I0320-08

Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.51	
	2	0.000	-0.030	0.030	0.50	2.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-9-1

Lab Sample ID: 17I0320-11

Date(s) Analyzed: 09/22/2017 09/22/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.094	
	2	0.000	-0.030	0.030	0.10	5.1
Aroclor-1268	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-14-1

Lab Sample ID: 17I0320-15

Date(s) Analyzed: 09/22/2017 09/22/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.71	
	2	0.000	-0.030	0.030	0.90	22.2
Aroclor-1260	1	0.000	-0.030	0.030	0.98	
	2	0.000	-0.030	0.030	0.98	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-14-2

Lab Sample ID: 17I0320-16

Date(s) Analyzed: 09/22/2017 09/22/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.38	
	2	0.000	-0.030	0.030	0.38	0.0
Aroclor-1260	1	0.000	-0.030	0.030	1.4	
	2	0.000	-0.030	0.030	1.4	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17I0320

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http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soxhlet	EDB	PAHs										# of Containers / [2] Preservation Code / [3] Container Code
								I												# of Containers
								H												[2] Preservation Code
								A												[3] Container Code
1	WS-AOC-6-SO-16-3	9/8/17	1137		X	S	U	X												
2	WS-AOC-6-SO-16-4		1139					X												
3	WS-AOC-6-SO-10-1		1153					X												
4	WS-AOC-6-SO-10-2		1154					X	X											
5	WS-AOC-6-SO-10-3		1155					X												
6	WS-AOC-6-SO-10-4		1156					X												
7	WS-AOC-6-SO-15-1		1157					X												
8	WS-AOC-6-SO-15-2		1159					X	X											
9	WS-AOC-6-SO-15-3		1159					X		X										
10	WS-AOC-6-SO-15-4		1200					X												

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/8/17 1520
Received by: (signature)	Date/Time: 9/8/17 1520
Relinquished by: (signature)	Date/Time: 9/8/17 1540
Received by: (signature)	Date/Time: 9/8/17 15:45
Relinquished by: (signature)	Date/Time: 9/8/17 17:08
Received by: (signature)	Date/Time: 9/8/17 1708

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	# of Containers	[2] Preservation Code	[3] Container Code	RCB, Soxhlet	ETPH	PAHs
11	WS-AOC-6-SO-9-1	9/8/17	1207		X	S	U				X		
12	WS-AOC-6-SO-9-2	↓	1205		↓	↓	↓				X	X	
13	WS-AOC-6-SO-9-3		1209								X		
14	WS-AOC-6-SO-9-4		1210								X		
15	WS-AOC-6-SO-14-1		1226								X		
16	WS-AOC-6-SO-14-2		1227								X	X	
17	WS-AOC-6-SO-14-3		1228								X		
18	WS-AOC-6-SO-14-4		1229								X		
19	WS-AOC-12W-SO-109-1		1304								X	X	X
20	WS-AOC-12W-SO-109-2	↓	1305		↓	↓	↓				X		

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
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_____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
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S = Summa Canister
T = Tedlar Bag
O = Other (please define)
_____

Comments:

Please hold excess volumes for possible SPLP analyses.

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Relinquished by: (signature)	Date/Time: 9/8/17 1540
Received by: (signature)	Date/Time: 9/8/17 15:40
Relinquished by: (signature)	Date/Time: 9/8/17 17:07
Received by: (signature)	Date/Time: 9/8/17 1708

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 9/8/17 Time 1708

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.3, 5.6
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? N/A
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	70
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments: