

CHAIN OF CUSTODY RECORD

con-test
ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers
Address: 273 Dividend Rd Rocky 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 Bld: Malcolm Beeler
Invoice Recipient: Malcolm Beeler (Weston & Sampson)
Sampled By: Chris Berthiaume / Will Sirotnak

Requested Turnaround Time:
7-Day 10-Day
Other: 5-day
Flush-Approval Required:
1-Day 3-Day
2-Day 4-Day
Format: PDF EXCEL
Other:
Enhanced Data Package Required:
Email To: beelerm@wseinc.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-PDC-15-50-9-2	9/17/17	0900		X	S	U
12	WS-PDC-15-50-9-3	9/17/17	0907		X	S	U
13	WS-PDC-15-50-10-1	9/17/17	0911		X	S	U
14	WS-PDC-15-50-10-2	9/17/17	0912		X	S	U
15	WS-PDC-15-50-10-3	9/17/17	0913		X	S	U
16	WS-PDC-15-50-5-1	9/17/17	0911		X	S	U
17	WS-PDC-15-50-5-2	9/17/17	0912		X	S	U
18	WS-PDC-15-50-5-3	9/17/17	0913		X	S	U
19	WS-PDC-15-50-14-1	9/17/17	0923		X	S	U
20	WS-PDC-15-50-14-2	9/17/17	0924		X	S	U

Comments:
Please hold excess volumes for possible SPLP analyses.
Grab analyses WS-PDC-15-50 (2-1 for M3/M50 also for EPA/PBS)

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) [Signature] Date/Time: 9/17/17 1510
Received by: (signature) [Signature] Date/Time: 9/17/17 1510
Relinquished by: (signature) [Signature] Date/Time: 9/17/17 17:05
Received by: (signature) [Signature] Date/Time: 9/17/17 17:05

Relinquished by: (signature) [Signature] Date/Time: 9-17-17 5:05
Received by: (signature) [Signature] Date/Time: 9/17/17 5:05

Relinquished by: (signature) [Signature] Date/Time: 9-17-17 5:05
Received by: (signature) [Signature] Date/Time: 9/17/17 5:05

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

of Containers
2 Preservation Code
3 Container Code

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) _____

ANALYSIS REQUESTED

1									
2									
3									
4									
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18									
19									
20									

39 Spruce St.
 East Longmeadow, MA. 01028
 P: 413-525-2332
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 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 Engineers

Received By WCG Date 9/7/17 Time 17:05

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 - 3.0°C/2.4°C
 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? +

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 Client T Analysis + Sampler Name T
 pertinent Information? Project Y 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? T 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? Acid N/A Base N/A

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	

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\A091717.SEC\A0917007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/17/17
Data File Name A0917007.D
Sample Name ETPH 1500
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	597076	636547	-6
c - 10	1.62	605287	636547	-5
c - 12	2.34	626376	636547	-2
c - 14	3.01	640333	636547	1
c - 16	3.61	656511	636547	3
c - 18	4.23	650510	636547	2
o-Terphenyl	4.51	726871	636547	
c - 20	4.83	660040	636547	4
c - 22	5.34	670890	636547	5
c - 24	5.77	626137	636547	-2
c - 26	6.16	658819	636547	3
c - 28	6.52	649880	636547	2
c - 30	6.85	641260	636547	1
c - 32	7.16	621701	636547	-2
c - 34	7.45	622676	636547	-2
c - 36	7.77	620710	636547	-2

* One compound allowed %D <= 50%

Samples

1710572-03
1710243-09
1710243-17

D:\HPCHEM\1\DATA\A091717.SEC\A0917041.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/17/17
 Data File Name A0917041.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	639717	689121	-7
c - 10	1.63	654249	689121	-5
c - 12	2.35	680470	689121	-1
c - 14	3.01	696715	689121	1
c - 16	3.61	713676	689121	4
c - 18	4.23	705868	689121	2
o-Terphenyl	4.51	787004	689121	
c - 20	4.83	715274	689121	4
c - 22	5.34	725953	689121	5
c - 24	5.77	676931	689121	-2
c - 26	6.16	711325	689121	3
c - 28	6.52	701176	689121	2
c - 30	6.85	692215	689121	0
c - 32	7.16	672885	689121	-2
c - 34	7.45	675274	689121	-2
c - 36	7.77	675089	689121	-2

* One compound allowed %D <= 50%

Samples

1710350-01
 1710374-02
 1710374-04
 1710325-03
 1710325-04

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



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: 1710243

Laboratory Sample ID(s):

Sample Date(s):

1710243-01 thru 1710243-20

09/07/2017

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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:

Position: Project Manager

Printed Name: Lisa A. Worthington

Date: 09/19/17

Name of Laboratory: Con-Test Analytical Laboratory

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

September 20, 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: 17I0244

Enclosed are results of analyses for samples received by the laboratory on September 7, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

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: 9/20/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710244

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-14-3	1710244-01	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-11-1	1710244-02	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-11-2	1710244-03	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-11-3	1710244-04	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-13-1	1710244-05	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-13-2	1710244-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-13-3	1710244-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-12-1	1710244-08	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-12-2	1710244-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-12-3	1710244-10	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-22-1	1710244-11	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-22-2	1710244-12	Soil		SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC-15-SO-22-3	1710244-13	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-16-1	1710244-14	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-16-2	1710244-15	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-16-3	1710244-16	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-23-1	1710244-17	Soil		CTDEP ETPH 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: 9/20/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710244

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-23-2	1710244-18	Soil		SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC-15-SO-23-3	1710244-19	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-17-1	1710244-20	Soil		CTDEP ETPH SM 2540G SW-846 8082A	

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 & Sample(s) Qualified:

o-Terphenyl

1710244-05[WS-AOC-15-SO-13-1], 1710244-14[WS-AOC-15-SO-16-1], 1710244-17[WS-AOC-15-SO-23-1]

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.



Tod E. Kopyscinski
Laboratory Director

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-14-3

Sampled: 9/7/2017 09:25

Sample ID: 1710244-01

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	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		92.5	30-150					9/19/17 15:36	
Decachlorobiphenyl [2]		106	30-150					9/19/17 15:36	
Tetrachloro-m-xylene [1]		83.4	30-150					9/19/17 15:36	
Tetrachloro-m-xylene [2]		84.9	30-150					9/19/17 15:36	

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-14-3

Sampled: 9/7/2017 09:25

Sample ID: 1710244-01

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	89.4		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-11-1

Sampled: 9/7/2017 09:20

Sample ID: 1710244-02

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	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		66.0	30-150					9/19/17 15:53	
Decachlorobiphenyl [2]		75.2	30-150					9/19/17 15:53	
Tetrachloro-m-xylene [1]		77.4	30-150					9/19/17 15:53	
Tetrachloro-m-xylene [2]		73.3	30-150					9/19/17 15:53	

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-11-1

Sampled: 9/7/2017 09:20

Sample ID: 1710244-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	480	110	mg/Kg dry	10		CTDEP ETPH	9/14/17	9/20/17 2:01	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		60.2	50-150					9/20/17 2:01	

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-11-1

Sampled: 9/7/2017 09:20

Sample ID: 1710244-02

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	87.6		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-11-2

Sampled: 9/7/2017 09:21

Sample ID: 1710244-03

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	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		73.7	30-150					9/19/17 16:11	
Decachlorobiphenyl [2]		81.9	30-150					9/19/17 16:11	
Tetrachloro-m-xylene [1]		95.5	30-150					9/19/17 16:11	
Tetrachloro-m-xylene [2]		90.1	30-150					9/19/17 16:11	

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-11-2

Sampled: 9/7/2017 09:21

Sample ID: 1710244-03

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	85.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-11-3

Sampled: 9/7/2017 09:22

Sample ID: 1710244-04

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	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		88.4	30-150					9/19/17 16:28	
Decachlorobiphenyl [2]		98.4	30-150					9/19/17 16:28	
Tetrachloro-m-xylene [1]		86.1	30-150					9/19/17 16:28	
Tetrachloro-m-xylene [2]		83.9	30-150					9/19/17 16:28	

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-11-3

Sampled: 9/7/2017 09:22

Sample ID: 1710244-04

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	72.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-13-1

Sampled: 9/7/2017 09:33

Sample ID: 1710244-05

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	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		97.2	30-150					9/19/17 16:46	
Decachlorobiphenyl [2]		109	30-150					9/19/17 16:46	
Tetrachloro-m-xylene [1]		94.4	30-150					9/19/17 16:46	
Tetrachloro-m-xylene [2]		91.6	30-150					9/19/17 16:46	

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-13-1

Sampled: 9/7/2017 09:33

Sample ID: 1710244-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	620	420	mg/Kg dry	20		CTDEP ETPH	9/14/17	9/19/17 17:18	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		*	50-150		S-01			9/19/17 17:18	

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-13-1

Sampled: 9/7/2017 09:33

Sample ID: 1710244-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	9/13/17	9/14/17 8:45	MRL

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-13-2

Sampled: 9/7/2017 09:39

Sample ID: 1710244-06

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	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		70.6	30-150					9/19/17 17:03	
Decachlorobiphenyl [2]		78.3	30-150					9/19/17 17:03	
Tetrachloro-m-xylene [1]		79.4	30-150					9/19/17 17:03	
Tetrachloro-m-xylene [2]		79.6	30-150					9/19/17 17:03	

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-13-2

Sampled: 9/7/2017 09:39

Sample ID: 1710244-06

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	94.9		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-13-3

Sampled: 9/7/2017 09:40

Sample ID: 1710244-07

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	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		83.2	30-150					9/19/17 17:21	
Decachlorobiphenyl [2]		91.8	30-150					9/19/17 17:21	
Tetrachloro-m-xylene [1]		92.4	30-150					9/19/17 17:21	
Tetrachloro-m-xylene [2]		90.9	30-150					9/19/17 17:21	

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-13-3

Sampled: 9/7/2017 09:40

Sample ID: 1710244-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	9/13/17	9/14/17 8:45	MRL

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-12-1

Sampled: 9/7/2017 09:37

Sample ID: 1710244-08

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	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		83.0	30-150					9/19/17 17:38	
Decachlorobiphenyl [2]		91.6	30-150					9/19/17 17:38	
Tetrachloro-m-xylene [1]		88.7	30-150					9/19/17 17:38	
Tetrachloro-m-xylene [2]		84.9	30-150					9/19/17 17:38	

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-12-1

Sampled: 9/7/2017 09:37

Sample ID: 1710244-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1000	270	mg/Kg dry	25		CTDEP ETPH	9/14/17	9/20/17 13:46	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		62.1	50-150					9/20/17 13:46	

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-12-1

Sampled: 9/7/2017 09:37

Sample ID: 1710244-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	9/13/17	9/14/17 8:45	MRL

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-12-2

Sampled: 9/7/2017 09:39

Sample ID: 1710244-09

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	9/12/17	9/19/17 17:56	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		80.3	30-150					9/19/17 17:56	
Decachlorobiphenyl [2]		87.8	30-150					9/19/17 17:56	
Tetrachloro-m-xylene [1]		90.4	30-150					9/19/17 17:56	
Tetrachloro-m-xylene [2]		90.0	30-150					9/19/17 17:56	

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-12-2

Sampled: 9/7/2017 09:39

Sample ID: 1710244-09

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	92.6		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-12-3

Sampled: 9/7/2017 09:39

Sample ID: 1710244-10

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	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		91.8	30-150					9/19/17 19:01	
Decachlorobiphenyl [2]		103	30-150					9/19/17 19:01	
Tetrachloro-m-xylene [1]		96.0	30-150					9/19/17 19:01	
Tetrachloro-m-xylene [2]		96.0	30-150					9/19/17 19:01	

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-12-3

Sampled: 9/7/2017 09:39

Sample ID: 1710244-10

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	75.7		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-1

Sampled: 9/7/2017 10:07

Sample ID: 1710244-11

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	9/12/17	9/19/17 19:18	KAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		81.5	30-150					9/19/17 19:18	
Decachlorobiphenyl [2]		90.9	30-150					9/19/17 19:18	
Tetrachloro-m-xylene [1]		91.7	30-150					9/19/17 19:18	
Tetrachloro-m-xylene [2]		87.0	30-150					9/19/17 19:18	

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-1

Sampled: 9/7/2017 10:07

Sample ID: 1710244-11

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	540	110	mg/Kg dry	10		CTDEP ETPH	9/14/17	9/20/17 2:54	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		57.9	50-150					9/20/17 2:54	

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

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-1

Sampled: 9/7/2017 10:07

Sample ID: 1710244-11

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	90.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-2

Sampled: 9/7/2017 10:08

Sample ID: 1710244-12

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	9/12/17	9/14/17 13:30	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Benzo(a)anthracene	0.41	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Benzo(a)pyrene	0.35	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Benzo(b)fluoranthene	0.47	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Benzo(g,h,i)perylene	0.20	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Chrysene	0.48	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Fluoranthene	0.76	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Indeno(1,2,3-cd)pyrene	0.22	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Phenanthrene	0.59	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Pyrene	0.66	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		58.7	30-130					9/14/17 13:30	
2-Fluorobiphenyl		64.7	30-130					9/14/17 13:30	
p-Terphenyl-d14		66.0	30-130					9/14/17 13:30	

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

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-2

Sampled: 9/7/2017 10:08

Sample ID: 1710244-12

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	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		80.7	30-150					9/19/17 19:36	
Decachlorobiphenyl [2]		92.6	30-150					9/19/17 19:36	
Tetrachloro-m-xylene [1]		80.2	30-150					9/19/17 19:36	
Tetrachloro-m-xylene [2]		77.7	30-150					9/19/17 19:36	

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

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-2

Sampled: 9/7/2017 10:08

Sample ID: 1710244-12

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	87.9		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-3

Sampled: 9/7/2017 10:09

Sample ID: 1710244-13

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	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		89.3	30-150					9/19/17 19:53	
Decachlorobiphenyl [2]		99.3	30-150					9/19/17 19:53	
Tetrachloro-m-xylene [1]		95.5	30-150					9/19/17 19:53	
Tetrachloro-m-xylene [2]		98.5	30-150					9/19/17 19:53	

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

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-3

Sampled: 9/7/2017 10:09

Sample ID: 1710244-13

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	81.4		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-16-1

Sampled: 9/7/2017 10:05

Sample ID: 1710244-14

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	9/12/17	9/19/17 20:11	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		101	30-150					9/19/17 20:11	
Decachlorobiphenyl [2]		113	30-150					9/19/17 20:11	
Tetrachloro-m-xylene [1]		104	30-150					9/19/17 20:11	
Tetrachloro-m-xylene [2]		103	30-150					9/19/17 20:11	

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

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-16-1

Sampled: 9/7/2017 10:05

Sample ID: 1710244-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	630	430	mg/Kg dry	20		CTDEP ETPH	9/14/17	9/19/17 18:02	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		*	50-150		S-01			9/19/17 18:02	

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

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-16-1

Sampled: 9/7/2017 10:05

Sample ID: 1710244-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	9/13/17	9/14/17 8:45	MRL

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

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-16-2

Sampled: 9/7/2017 10:06

Sample ID: 1710244-15

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	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		79.2	30-150					9/19/17 20:28	
Decachlorobiphenyl [2]		87.5	30-150					9/19/17 20:28	
Tetrachloro-m-xylene [1]		95.3	30-150					9/19/17 20:28	
Tetrachloro-m-xylene [2]		94.7	30-150					9/19/17 20:28	

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-16-2

Sampled: 9/7/2017 10:06

Sample ID: 1710244-15

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	86.5		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-16-3

Sampled: 9/7/2017 10:07

Sample ID: 1710244-16

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	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		87.3	30-150					9/19/17 20:46	
Decachlorobiphenyl [2]		96.0	30-150					9/19/17 20:46	
Tetrachloro-m-xylene [1]		93.9	30-150					9/19/17 20:46	
Tetrachloro-m-xylene [2]		93.1	30-150					9/19/17 20:46	

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-16-3

Sampled: 9/7/2017 10:07

Sample ID: 1710244-16

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.9		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-1

Sampled: 9/7/2017 10:25

Sample ID: 1710244-17

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	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		76.1	30-150					9/19/17 21:03	
Decachlorobiphenyl [2]		84.7	30-150					9/19/17 21:03	
Tetrachloro-m-xylene [1]		90.0	30-150					9/19/17 21:03	
Tetrachloro-m-xylene [2]		86.9	30-150					9/19/17 21:03	

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-1

Sampled: 9/7/2017 10:25

Sample ID: 1710244-17

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1500	550	mg/Kg dry	50		CTDEP ETPH	9/14/17	9/20/17 14:04	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		*	50-150		S-01			9/20/17 14:04	

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-1

Sampled: 9/7/2017 10:25

Sample ID: 1710244-17

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-2

Sampled: 9/7/2017 10:26

Sample ID: 1710244-18

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	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Benzo(a)anthracene	0.40	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Benzo(a)pyrene	0.35	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Benzo(b)fluoranthene	0.51	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Benzo(g,h,i)perylene	0.25	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Chrysene	0.55	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Fluoranthene	0.82	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Indeno(1,2,3-cd)pyrene	0.24	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Naphthalene	0.21	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Phenanthrene	0.79	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Pyrene	0.64	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		61.5	30-130					9/14/17 13:56	
2-Fluorobiphenyl		68.8	30-130					9/14/17 13:56	
p-Terphenyl-d14		67.8	30-130					9/14/17 13:56	

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

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-2

Sampled: 9/7/2017 10:26

Sample ID: 1710244-18

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	9/12/17	9/19/17 21:20	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		78.3	30-150					9/19/17 21:20	
Decachlorobiphenyl [2]		93.3	30-150					9/19/17 21:20	
Tetrachloro-m-xylene [1]		84.9	30-150					9/19/17 21:20	
Tetrachloro-m-xylene [2]		82.3	30-150					9/19/17 21:20	

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-2

Sampled: 9/7/2017 10:26

Sample ID: 1710244-18

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	82.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-3

Sampled: 9/7/2017 10:27

Sample ID: 1710244-19

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	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.8	30-150					9/19/17 21:38	
Decachlorobiphenyl [2]		94.0	30-150					9/19/17 21:38	
Tetrachloro-m-xylene [1]		92.7	30-150					9/19/17 21:38	
Tetrachloro-m-xylene [2]		97.4	30-150					9/19/17 21:38	

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

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-3

Sampled: 9/7/2017 10:27

Sample ID: 1710244-19

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	82.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

Sample Description:

Work Order: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-17-1

Sampled: 9/7/2017 10:43

Sample ID: 1710244-20

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	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		88.7	30-150					9/19/17 21:55	
Decachlorobiphenyl [2]		96.5	30-150					9/19/17 21:55	
Tetrachloro-m-xylene [1]		95.7	30-150					9/19/17 21:55	
Tetrachloro-m-xylene [2]		94.1	30-150					9/19/17 21:55	

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-17-1

Sampled: 9/7/2017 10:43

Sample ID: 1710244-20

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	78	11	mg/Kg dry	1		CTDEP ETPH	9/14/17	9/18/17 20:50	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		63.7	50-150					9/18/17 20:50	

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: 1710244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-17-1

Sampled: 9/7/2017 10:43

Sample ID: 1710244-20

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	90.5		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0244-02 [WS-AOC-15-SO-11-1]	B186230	30.1	1.00	09/14/17
17I0244-05 [WS-AOC-15-SO-13-1]	B186230	30.0	2.00	09/14/17
17I0244-08 [WS-AOC-15-SO-12-1]	B186230	30.0	1.00	09/14/17
17I0244-11 [WS-AOC-15-SO-22-1]	B186230	30.0	1.00	09/14/17
17I0244-14 [WS-AOC-15-SO-16-1]	B186230	30.0	2.00	09/14/17
17I0244-17 [WS-AOC-15-SO-23-1]	B186230	30.1	1.00	09/14/17
17I0244-20 [WS-AOC-15-SO-17-1]	B186230	30.0	1.00	09/14/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0244-01 [WS-AOC-15-SO-14-3]	B186104	09/13/17
17I0244-02 [WS-AOC-15-SO-11-1]	B186104	09/13/17
17I0244-03 [WS-AOC-15-SO-11-2]	B186104	09/13/17
17I0244-04 [WS-AOC-15-SO-11-3]	B186104	09/13/17
17I0244-05 [WS-AOC-15-SO-13-1]	B186104	09/13/17
17I0244-06 [WS-AOC-15-SO-13-2]	B186104	09/13/17
17I0244-07 [WS-AOC-15-SO-13-3]	B186104	09/13/17
17I0244-08 [WS-AOC-15-SO-12-1]	B186104	09/13/17
17I0244-09 [WS-AOC-15-SO-12-2]	B186104	09/13/17
17I0244-10 [WS-AOC-15-SO-12-3]	B186104	09/13/17
17I0244-11 [WS-AOC-15-SO-22-1]	B186104	09/13/17
17I0244-12 [WS-AOC-15-SO-22-2]	B186104	09/13/17
17I0244-13 [WS-AOC-15-SO-22-3]	B186104	09/13/17
17I0244-14 [WS-AOC-15-SO-16-1]	B186104	09/13/17
17I0244-15 [WS-AOC-15-SO-16-2]	B186104	09/13/17
17I0244-16 [WS-AOC-15-SO-16-3]	B186104	09/13/17
17I0244-17 [WS-AOC-15-SO-23-1]	B186104	09/13/17
17I0244-18 [WS-AOC-15-SO-23-2]	B186104	09/13/17
17I0244-19 [WS-AOC-15-SO-23-3]	B186104	09/13/17
17I0244-20 [WS-AOC-15-SO-17-1]	B186104	09/13/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0244-01 [WS-AOC-15-SO-14-3]	B186068	10.0	10.0	09/12/17
17I0244-02 [WS-AOC-15-SO-11-1]	B186068	10.0	10.0	09/12/17
17I0244-03 [WS-AOC-15-SO-11-2]	B186068	10.0	10.0	09/12/17
17I0244-04 [WS-AOC-15-SO-11-3]	B186068	10.0	10.0	09/12/17
17I0244-05 [WS-AOC-15-SO-13-1]	B186068	10.0	10.0	09/12/17
17I0244-06 [WS-AOC-15-SO-13-2]	B186068	10.0	10.0	09/12/17
17I0244-07 [WS-AOC-15-SO-13-3]	B186068	10.0	10.0	09/12/17
17I0244-08 [WS-AOC-15-SO-12-1]	B186068	10.0	10.0	09/12/17
17I0244-09 [WS-AOC-15-SO-12-2]	B186068	10.0	10.0	09/12/17
17I0244-10 [WS-AOC-15-SO-12-3]	B186068	10.0	10.0	09/12/17
17I0244-11 [WS-AOC-15-SO-22-1]	B186068	10.0	10.0	09/12/17
17I0244-12 [WS-AOC-15-SO-22-2]	B186068	10.0	10.0	09/12/17
17I0244-13 [WS-AOC-15-SO-22-3]	B186068	10.0	10.0	09/12/17
17I0244-14 [WS-AOC-15-SO-16-1]	B186068	10.0	10.0	09/12/17
17I0244-15 [WS-AOC-15-SO-16-2]	B186068	10.0	10.0	09/12/17
17I0244-16 [WS-AOC-15-SO-16-3]	B186068	10.0	10.0	09/12/17
17I0244-17 [WS-AOC-15-SO-23-1]	B186068	10.0	10.0	09/12/17
17I0244-18 [WS-AOC-15-SO-23-2]	B186068	10.0	10.0	09/12/17

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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
17I0244-19 [WS-AOC-15-SO-23-3]	B186068	10.0	10.0	09/12/17
17I0244-20 [WS-AOC-15-SO-17-1]	B186068	10.0	10.0	09/12/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0244-12 [WS-AOC-15-SO-22-2]	B186035	30.0	1.00	09/12/17
17I0244-18 [WS-AOC-15-SO-23-2]	B186035	30.0	1.00	09/12/17

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
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Batch B186035 - SW-846 3546

Blank (B186035-BLK1)

Prepared: 09/12/17 Analyzed: 09/13/17

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	2.35		mg/Kg wet	3.33		70.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.67		mg/Kg wet	3.33		80.2	30-130			
Surrogate: p-Terphenyl-d14	3.30		mg/Kg wet	3.33		98.9	30-130			

LCS (B186035-BS1)

Prepared: 09/12/17 Analyzed: 09/13/17

Acenaphthene	0.931	0.17	mg/Kg wet	1.67		55.9	40-140			
Acenaphthylene	0.949	0.17	mg/Kg wet	1.67		56.9	40-140			
Anthracene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140			
Benzo(a)anthracene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Benzo(a)pyrene	1.06	0.17	mg/Kg wet	1.67		63.3	40-140			
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.1	40-140			
Benzo(g,h,i)perylene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140			
Benzo(k)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140			
Chrysene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140			
Dibenz(a,h)anthracene	1.13	0.17	mg/Kg wet	1.67		67.7	40-140			
Fluoranthene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140			
Fluorene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140			
Indeno(1,2,3-cd)pyrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140			
2-Methylnaphthalene	1.12	0.17	mg/Kg wet	1.67		67.0	40-140			
Naphthalene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Phenanthrene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140			
Pyrene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140			
Surrogate: Nitrobenzene-d5	2.24		mg/Kg wet	3.33		67.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.47		mg/Kg wet	3.33		74.1	30-130			
Surrogate: p-Terphenyl-d14	2.85		mg/Kg wet	3.33		85.6	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 B186035 - SW-846 3546										
LCS Dup (B186035-BSD1)										
					Prepared: 09/12/17 Analyzed: 09/13/17					
Acenaphthene	0.973	0.17	mg/Kg wet	1.67		58.4	40-140	4.34	30	
Acenaphthylene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140	7.44	30	
Anthracene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140	6.92	30	
Benzo(a)anthracene	1.17	0.17	mg/Kg wet	1.67		70.4	40-140	5.73	30	
Benzo(a)pyrene	1.17	0.17	mg/Kg wet	1.67		69.9	40-140	9.94	30	
Benzo(b)fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140	6.93	30	
Benzo(g,h,i)perylene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140	8.41	30	
Benzo(k)fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.3	40-140	7.83	30	
Chrysene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140	6.68	30	
Dibenz(a,h)anthracene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140	7.86	30	
Fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.3	40-140	6.79	30	
Fluorene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	7.79	30	
Indeno(1,2,3-cd)pyrene	1.20	0.17	mg/Kg wet	1.67		72.3	40-140	8.75	30	
2-Methylnaphthalene	1.20	0.17	mg/Kg wet	1.67		72.1	40-140	7.39	30	
Naphthalene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	4.48	30	
Phenanthrene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140	4.22	30	
Pyrene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140	5.80	30	
Surrogate: Nitrobenzene-d5	2.37		mg/Kg wet	3.33		71.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.65		mg/Kg wet	3.33		79.6	30-130			
Surrogate: p-Terphenyl-d14	3.00		mg/Kg wet	3.33		90.1	30-130			

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 B186068 - SW-846 3540C										
Blank (B186068-BLK1)										
Prepared: 09/12/17 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	0.221		mg/Kg wet	0.200		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.192		mg/Kg wet	0.200		96.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.193		mg/Kg wet	0.200		96.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.136		mg/Kg wet	0.200		67.8	30-150			
LCS (B186068-BS1)										
Prepared: 09/12/17 Analyzed: 09/19/17										
Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		73.4	40-140			
Aroclor-1016 [2C]	0.13	0.020	mg/Kg wet	0.200		67.3	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.8	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		79.1	40-140			
Surrogate: Decachlorobiphenyl	0.220		mg/Kg wet	0.200		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.193		mg/Kg wet	0.200		96.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.191		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.132		mg/Kg wet	0.200		66.0	30-150			
LCS Dup (B186068-BSD1)										
Prepared: 09/12/17 Analyzed: 09/19/17										
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		79.7	40-140	8.16	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		74.3	40-140	9.86	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		82.5	40-140	7.23	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		84.9	40-140	7.08	30	
Surrogate: Decachlorobiphenyl	0.223		mg/Kg wet	0.200		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.192		mg/Kg wet	0.200		96.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.199		mg/Kg wet	0.200		99.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.140		mg/Kg wet	0.200		70.2	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
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Batch B186068 - SW-846 3540C

Matrix Spike (B186068-MS1)

Source: 1710244-01

Prepared: 09/12/17 Analyzed: 09/19/17

Aroclor-1016	0.20	0.089	mg/Kg dry	0.224	ND	90.5	40-140			
Aroclor-1016 [2C]	0.18	0.089	mg/Kg dry	0.224	ND	80.6	40-140			
Aroclor-1260	0.17	0.089	mg/Kg dry	0.224	ND	76.0	40-140			
Aroclor-1260 [2C]	0.17	0.089	mg/Kg dry	0.224	ND	76.1	40-140			
Surrogate: Decachlorobiphenyl	0.189		mg/Kg dry	0.224		84.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.217		mg/Kg dry	0.224		97.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.211		mg/Kg dry	0.224		94.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.206		mg/Kg dry	0.224		91.9	30-150			

Matrix Spike Dup (B186068-MSD1)

Source: 1710244-01

Prepared: 09/12/17 Analyzed: 09/19/17

Aroclor-1016	0.20	0.089	mg/Kg dry	0.224	ND	91.3	40-140	0.955	50	
Aroclor-1016 [2C]	0.19	0.089	mg/Kg dry	0.224	ND	83.4	40-140	3.34	50	
Aroclor-1260	0.18	0.089	mg/Kg dry	0.224	ND	81.6	40-140	7.10	50	
Aroclor-1260 [2C]	0.19	0.089	mg/Kg dry	0.224	ND	85.2	40-140	11.3	50	
Surrogate: Decachlorobiphenyl	0.200		mg/Kg dry	0.224		89.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.220		mg/Kg dry	0.224		98.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.200		mg/Kg dry	0.224		89.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.205		mg/Kg dry	0.224		91.7	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 B186230 - SW-846 3546										
Blank (B186230-BLK1)										
					Prepared: 09/14/17 Analyzed: 09/15/17					
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.96		mg/Kg wet	3.33		88.9	50-150			
LCS (B186230-BS1)										
					Prepared: 09/14/17 Analyzed: 09/15/17					
CT ETPH	25.2	10	mg/Kg wet	33.3		75.5	60-120			
Surrogate: o-Terphenyl	2.89		mg/Kg wet	3.33		86.7	50-150			
LCS Dup (B186230-BSD1)										
					Prepared: 09/14/17 Analyzed: 09/15/17					
CT ETPH	26.1	10	mg/Kg wet	33.3		78.4	60-120	3.81	30	
Surrogate: o-Terphenyl	3.02		mg/Kg wet	3.33		90.6	50-150			

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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.

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 Public 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



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

Enhanced Data Package Required:

Other:
 Email To: beelerm@wseinc.com
 Fax To #:

Company Name: Weston & Sampson Engineers
Address: 273 Dividend Rd Rocky 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: Malcolm Beeler
Invoice Recipient: Malcolm Beeler (Weston & Sampson)
Sampled By: Chris Berthiaume/Will Sirotinak

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	WS-PDC-15-50-14-3	9/17/17 0925	0925		X	S	U
02	WS-PDC-15-50-11-1	9/17/17 0920	0920		X	S	U
03	WS-PDC-15-50-11-2	9/17/17 0921	0921		X	S	U
04	WS-PDC-15-50-11-3	9/17/17 0922	0922		X	S	U
05	WS-PDC-15-50-13-1	9/17/17 0933	0933		X	S	U
06	WS-PDC-15-50-13-2	9/17/17 0939	0939		X	S	U
07	WS-PDC-15-50-13-3	9/17/17 0940	0940		X	S	U
08	WS-PDC-15-50-12-1	9/17/17 0987	0987		X	S	U
09	WS-PDC-15-50-12-2	9/17/17 0984	0984		X	S	U
10	WS-PDC-15-50-12-3	9/17/17 0989	0989		X	S	U

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

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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39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com



Requested Turnaround Time
 7-Day 10-Day 5-Day
 Other: _____

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

Data-Delivery
 Format: PDF EXCEL
 Other: _____

Enhanced Data Package Required:
 Email To: beelerm@wseinc.com
 Fax To #: _____

Company Name: **Weston & Sampson Engineers**
 Address: **273 Dividend Rd Rooky 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 Berthaume /Will Sirotnak**

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-ADC-15-50-22-1	9/17/17	10:07		X	S	V
12	WS-ADC-15-50-22-2	9/17/17	10:08		X	S	V
13	WS-ADC-15-50-22-3	9/17/17	10:09		X	S	V
14	WS-ADC-15-50-16-1	9/17/17	10:05		X	S	V
15	WS-ADC-15-50-16-2	9/17/17	10:06		X	S	V
16	WS-ADC-15-50-16-3	9/17/17	10:07		X	S	V
17	WS-ADC-15-50-23-1	9/17/17	10:25		X	S	V
18	WS-ADC-15-50-23-2	9/17/17	10:26		X	S	V
19	WS-ADC-15-50-23-3	9/17/17	10:27		X	S	V
20	WS-ADC-15-50-17-1	9/17/17	10:43		X	S	V

ANALYSIS REQUESTED

- 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)

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

Comments:

Please hold excess volumes for possible SPLP analyses.

Relinquished by: (signature) _____ Date/Time: 9/17/17 15:10

Received by: (signature) _____ Date/Time: 9/14/17 15:00

Relinquished by: (signature) _____ Date/Time: _____

Received by: (signature) _____ Date/Time: 9-17-17 4:00

Relinquished by: (signature) _____ Date/Time: 9-17-17 5:00

Received by: (signature) _____ Date/Time: 9/17/17 17:07

Detection Limit Requirements
 MCP Analytical Certification Form Required
 RCP Analysis Certification Form Required
 MA State DW Form Required
 PWSID # _____

Program Information
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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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 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 Engineers

Received By WCC Date 9/7/17 Time 17:05

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 - 3.0/2.4°C
 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? 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? T 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? Acid N/A Base N/A

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		

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\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

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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\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
 1710380-07
 1710380-08
 1710408-01
 1710408-02
 1710408-03
 1710408-04
 1710408-05
 1710408-06
 1710408-07
 1710408-08
 1710539-06
 1710539-07

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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.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

1710242-15@20X
 1710244-05@20X
 1710244-14@20X
 1710320-19@5X
 1710321-05@5X
 1710321-08@5X
 1710242-06@20X
 1710242-09@20X
 1710241-04@20X
 1710241-13@20X
 1710456-01@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

1710531-03
 1710531-04
 1710656-01
 1710378-12@5X
 1710378-14@10X
 1710319-08@5X
 1710319-16@5X
 1710320-08@5X
 1710320-12@5X
 1710321-02@20X
 1710455-01@20X
 1710531-01
 1710531-02

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

1710244-08@25X
 1710244-17@50X
 1710531-05@10X
 1710242-18@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

1710539-05@5X
 1710319-04@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: 1710244

Laboratory Sample ID(s):

Sample Date(s):

1710244-01 thru 1710244-20

09/07/2017

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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: 09/20/17

Name of Laboratory: Con-Test Analytical Laboratory

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

September 20, 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: 17I0317

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,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

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: 9/20/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710317

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-35-1	1710317-01	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-35-2	1710317-02	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-35-3	1710317-03	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-32-1	1710317-04	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-32-2	1710317-05	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-32-3	1710317-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-11-1	1710317-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-11-2	1710317-08	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-6-SO-11-3	1710317-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-11-4	1710317-10	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-6-1	1710317-11	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-6-2	1710317-12	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-6-SO-6-3	1710317-13	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-6-4	1710317-14	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-12-1	1710317-15	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-12-2	1710317-16	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-6-SO-12-3	1710317-17	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-12-4	1710317-18	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: 9/20/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710317

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-5-1	1710317-19	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-5-2	1710317-20	Soil		CTDEP ETPH SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

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

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**

1710317-12[WS-AOC-6-SO-6-2], B186332-MS1, B186332-MSD1

S-23

Surrogate recovery outside of control limits in BS/MS spiked sample, all reported analytes are within control criteria, data not significantly affected.

Analyte & Samples(s) Qualified:**o-Terphenyl**

B186332-MSD1

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

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-1

Sampled: 9/8/2017 09:38

Sample ID: 1710317-01

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	9/19/17 17:02	TG
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		100	30-150					9/19/17 17:02	
Decachlorobiphenyl [2]		97.2	30-150					9/19/17 17:02	
Tetrachloro-m-xylene [1]		109	30-150					9/19/17 17:02	
Tetrachloro-m-xylene [2]		109	30-150					9/19/17 17:02	

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-1

Sampled: 9/8/2017 09:38

Sample ID: 1710317-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	180	58	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 3:12	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		63.6	50-150					9/20/17 3:12	

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-1

Sampled: 9/8/2017 09:38

Sample ID: 1710317-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.3		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-2

Sampled: 9/8/2017 09:39

Sample ID: 1710317-02

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	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		96.4	30-150					9/19/17 17:19	
Decachlorobiphenyl [2]		91.6	30-150					9/19/17 17:19	
Tetrachloro-m-xylene [1]		103	30-150					9/19/17 17:19	
Tetrachloro-m-xylene [2]		104	30-150					9/19/17 17:19	

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-2

Sampled: 9/8/2017 09:39

Sample ID: 1710317-02

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	67.2		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-3

Sampled: 9/8/2017 09:40

Sample ID: 1710317-03

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	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		97.2	30-150					9/19/17 17:37	
Decachlorobiphenyl [2]		90.3	30-150					9/19/17 17:37	
Tetrachloro-m-xylene [1]		97.8	30-150					9/19/17 17:37	
Tetrachloro-m-xylene [2]		101	30-150					9/19/17 17:37	

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-3

Sampled: 9/8/2017 09:40

Sample ID: 1710317-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-1

Sampled: 9/8/2017 09:30

Sample ID: 1710317-04

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	9/15/17	9/19/17 17:55	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		108	30-150					9/19/17 17:55	
Decachlorobiphenyl [2]		101	30-150					9/19/17 17:55	
Tetrachloro-m-xylene [1]		107	30-150					9/19/17 17:55	
Tetrachloro-m-xylene [2]		110	30-150					9/19/17 17:55	

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-1

Sampled: 9/8/2017 09:30

Sample ID: 1710317-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	83	14	mg/Kg dry	1		CTDEP ETPH	9/15/17	9/19/17 1:51	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		67.9	50-150					9/19/17 1:51	

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-1

Sampled: 9/8/2017 09:30

Sample ID: 1710317-04

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	72.3		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-2

Sampled: 9/8/2017 09:31

Sample ID: 1710317-05

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	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.2	30-150					9/19/17 18:12	
Decachlorobiphenyl [2]		78.9	30-150					9/19/17 18:12	
Tetrachloro-m-xylene [1]		85.5	30-150					9/19/17 18:12	
Tetrachloro-m-xylene [2]		87.8	30-150					9/19/17 18:12	

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-2

Sampled: 9/8/2017 09:31

Sample ID: 1710317-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-3

Sampled: 9/8/2017 09:32

Sample ID: 1710317-06

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	9/19/17 18:30	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		102	30-150					9/19/17 18:30	
Decachlorobiphenyl [2]		94.9	30-150					9/19/17 18:30	
Tetrachloro-m-xylene [1]		100	30-150					9/19/17 18:30	
Tetrachloro-m-xylene [2]		104	30-150					9/19/17 18:30	

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-3

Sampled: 9/8/2017 09:32

Sample ID: 1710317-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-1

Sampled: 9/8/2017 10:23

Sample ID: 1710317-07

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	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1260 [1]	0.18	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1268 [1]	0.15	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		102	30-150					9/19/17 18:47	
Decachlorobiphenyl [2]		106	30-150					9/19/17 18:47	
Tetrachloro-m-xylene [1]		104	30-150					9/19/17 18:47	
Tetrachloro-m-xylene [2]		103	30-150					9/19/17 18:47	

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-1

Sampled: 9/8/2017 10:23

Sample ID: 1710317-07

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	85.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-2

Sampled: 9/8/2017 10:24

Sample ID: 1710317-08

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	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		95.2	30-150					9/19/17 19:05	
Decachlorobiphenyl [2]		91.4	30-150					9/19/17 19:05	
Tetrachloro-m-xylene [1]		99.7	30-150					9/19/17 19:05	
Tetrachloro-m-xylene [2]		98.7	30-150					9/19/17 19:05	

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-2

Sampled: 9/8/2017 10:24

Sample ID: 1710317-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	210	58	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 3:29	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		56.4	50-150					9/20/17 3:29	

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-2

Sampled: 9/8/2017 10:24

Sample ID: 1710317-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	9/14/17	9/15/17 8:05	MRL

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-3

Sampled: 9/8/2017 10:25

Sample ID: 1710317-09

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	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.0	30-150					9/19/17 19:23	
Decachlorobiphenyl [2]		124	30-150					9/19/17 19:23	
Tetrachloro-m-xylene [1]		84.3	30-150					9/19/17 19:23	
Tetrachloro-m-xylene [2]		89.1	30-150					9/19/17 19:23	

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-3

Sampled: 9/8/2017 10:25

Sample ID: 1710317-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-4

Sampled: 9/8/2017 10:26

Sample ID: 1710317-10

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	9/19/17 19:40	TG
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		92.1	30-150					9/19/17 19:40	
Decachlorobiphenyl [2]		107	30-150					9/19/17 19:40	
Tetrachloro-m-xylene [1]		87.5	30-150					9/19/17 19:40	
Tetrachloro-m-xylene [2]		90.4	30-150					9/19/17 19:40	

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-4

Sampled: 9/8/2017 10:26

Sample ID: 1710317-10

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	87.7		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-1

Sampled: 9/8/2017 10:20

Sample ID: 1710317-11

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	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1254 [1]	0.14	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		88.7	30-150					9/19/17 19:58	
Decachlorobiphenyl [2]		88.7	30-150					9/19/17 19:58	
Tetrachloro-m-xylene [1]		91.8	30-150					9/19/17 19:58	
Tetrachloro-m-xylene [2]		95.8	30-150					9/19/17 19:58	

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-1

Sampled: 9/8/2017 10:20

Sample ID: 1710317-11

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	59.2		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-2

Sampled: 9/8/2017 10:21

Sample ID: 1710317-12

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	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1260 [1]	0.12	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1268 [1]	0.13	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	92.4		30-150				9/19/17 21:04		
Decachlorobiphenyl [2]	94.6		30-150				9/19/17 21:04		
Tetrachloro-m-xylene [1]	95.9		30-150				9/19/17 21:04		
Tetrachloro-m-xylene [2]	97.6		30-150				9/19/17 21:04		

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-2

Sampled: 9/8/2017 10:21

Sample ID: 1710317-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	460	57	mg/Kg dry	5	MS-09	CTDEP ETPH	9/15/17	9/20/17 3:47	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		74.2	50-150					9/20/17 3:47	

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-2

Sampled: 9/8/2017 10:21

Sample ID: 1710317-12

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	88.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-3

Sampled: 9/8/2017 10:22

Sample ID: 1710317-13

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	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		90.2	30-150					9/19/17 21:22	
Decachlorobiphenyl [2]		102	30-150					9/19/17 21:22	
Tetrachloro-m-xylene [1]		92.2	30-150					9/19/17 21:22	
Tetrachloro-m-xylene [2]		96.1	30-150					9/19/17 21:22	

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-3

Sampled: 9/8/2017 10:22

Sample ID: 1710317-13

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	89.5		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-4

Sampled: 9/8/2017 10:23

Sample ID: 1710317-14

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	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		101	30-150					9/19/17 21:40	
Decachlorobiphenyl [2]		95.8	30-150					9/19/17 21:40	
Tetrachloro-m-xylene [1]		96.2	30-150					9/19/17 21:40	
Tetrachloro-m-xylene [2]		101	30-150					9/19/17 21:40	

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-4

Sampled: 9/8/2017 10:23

Sample ID: 1710317-14

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	81.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-1

Sampled: 9/8/2017 10:40

Sample ID: 1710317-15

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	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1221 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1232 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1242 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1248 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1254 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1260 [1]	0.78	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1262 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1268 [1]	2.7	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		148	30-150					9/20/17 8:58	
Decachlorobiphenyl [2]		125	30-150					9/20/17 8:58	
Tetrachloro-m-xylene [1]		115	30-150					9/20/17 8:58	
Tetrachloro-m-xylene [2]		110	30-150					9/20/17 8:58	

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-1

Sampled: 9/8/2017 10:40

Sample ID: 1710317-15

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-2

Sampled: 9/8/2017 10:41

Sample ID: 1710317-16

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	9/15/17	9/19/17 22:15	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		96.7	30-150					9/19/17 22:15	
Decachlorobiphenyl [2]		100	30-150					9/19/17 22:15	
Tetrachloro-m-xylene [1]		96.8	30-150					9/19/17 22:15	
Tetrachloro-m-xylene [2]		101	30-150					9/19/17 22:15	

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-2

Sampled: 9/8/2017 10:41

Sample ID: 1710317-16

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	430	56	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 4:05	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		82.4	50-150					9/20/17 4:05	

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-2

Sampled: 9/8/2017 10:41

Sample ID: 1710317-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	9/14/17	9/15/17 8:05	MRL

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-3

Sampled: 9/8/2017 10:42

Sample ID: 1710317-17

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	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		97.5	30-150					9/19/17 22:33	
Decachlorobiphenyl [2]		95.9	30-150					9/19/17 22:33	
Tetrachloro-m-xylene [1]		97.8	30-150					9/19/17 22:33	
Tetrachloro-m-xylene [2]		103	30-150					9/19/17 22:33	

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-3

Sampled: 9/8/2017 10:42

Sample ID: 1710317-17

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.3		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-4

Sampled: 9/8/2017 10:43

Sample ID: 1710317-18

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	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1268 [1]	0.13	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		85.3	30-150					9/19/17 22:51	
Decachlorobiphenyl [2]		96.6	30-150					9/19/17 22:51	
Tetrachloro-m-xylene [1]		84.6	30-150					9/19/17 22:51	
Tetrachloro-m-xylene [2]		90.9	30-150					9/19/17 22:51	

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-4

Sampled: 9/8/2017 10:43

Sample ID: 1710317-18

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	76.2		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-1

Sampled: 9/8/2017 10:45

Sample ID: 1710317-19

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	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1260 [1]	0.14	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1268 [1]	0.16	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		97.6	30-150					9/19/17 23:08	
Decachlorobiphenyl [2]		97.1	30-150					9/19/17 23:08	
Tetrachloro-m-xylene [1]		96.7	30-150					9/19/17 23:08	
Tetrachloro-m-xylene [2]		102	30-150					9/19/17 23:08	

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-1

Sampled: 9/8/2017 10:45

Sample ID: 1710317-19

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-2

Sampled: 9/8/2017 10:46

Sample ID: 1710317-20

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	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1260 [2]	0.14	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1268 [1]	0.13	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	99.7		30-150				9/19/17 23:26		
Decachlorobiphenyl [2]	96.4		30-150				9/19/17 23:26		
Tetrachloro-m-xylene [1]	99.3		30-150				9/19/17 23:26		
Tetrachloro-m-xylene [2]	103		30-150				9/19/17 23:26		

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-2

Sampled: 9/8/2017 10:46

Sample ID: 1710317-20

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	160	57	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 4:22	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	70.1		50-150					9/20/17 4:22	

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: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-2

Sampled: 9/8/2017 10:46

Sample ID: 1710317-20

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	87.7		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0317-01 [WS-AOC-15-SO-35-1]	B186332	30.1	1.00	09/15/17
17I0317-04 [WS-AOC-15-SO-32-1]	B186332	30.1	1.00	09/15/17
17I0317-08 [WS-AOC-6-SO-11-2]	B186332	30.0	1.00	09/15/17
17I0317-12 [WS-AOC-6-SO-6-2]	B186332	30.0	1.00	09/15/17
17I0317-16 [WS-AOC-6-SO-12-2]	B186332	30.0	1.00	09/15/17
17I0317-20 [WS-AOC-6-SO-5-2]	B186332	30.0	1.00	09/15/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0317-01 [WS-AOC-15-SO-35-1]	B186207	09/14/17
17I0317-02 [WS-AOC-15-SO-35-2]	B186207	09/14/17
17I0317-03 [WS-AOC-15-SO-35-3]	B186207	09/14/17
17I0317-04 [WS-AOC-15-SO-32-1]	B186207	09/14/17
17I0317-05 [WS-AOC-15-SO-32-2]	B186207	09/14/17
17I0317-06 [WS-AOC-15-SO-32-3]	B186207	09/14/17
17I0317-07 [WS-AOC-6-SO-11-1]	B186207	09/14/17
17I0317-08 [WS-AOC-6-SO-11-2]	B186207	09/14/17
17I0317-09 [WS-AOC-6-SO-11-3]	B186207	09/14/17
17I0317-10 [WS-AOC-6-SO-11-4]	B186207	09/14/17
17I0317-11 [WS-AOC-6-SO-6-1]	B186207	09/14/17
17I0317-12 [WS-AOC-6-SO-6-2]	B186207	09/14/17
17I0317-13 [WS-AOC-6-SO-6-3]	B186207	09/14/17
17I0317-14 [WS-AOC-6-SO-6-4]	B186207	09/14/17
17I0317-15 [WS-AOC-6-SO-12-1]	B186207	09/14/17
17I0317-16 [WS-AOC-6-SO-12-2]	B186207	09/14/17
17I0317-17 [WS-AOC-6-SO-12-3]	B186207	09/14/17
17I0317-18 [WS-AOC-6-SO-12-4]	B186207	09/14/17
17I0317-19 [WS-AOC-6-SO-5-1]	B186207	09/14/17
17I0317-20 [WS-AOC-6-SO-5-2]	B186207	09/14/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0317-01 [WS-AOC-15-SO-35-1]	B186360	10.8	10.0	09/15/17
17I0317-02 [WS-AOC-15-SO-35-2]	B186360	10.0	10.0	09/15/17
17I0317-03 [WS-AOC-15-SO-35-3]	B186360	10.5	10.0	09/15/17
17I0317-04 [WS-AOC-15-SO-32-1]	B186360	10.8	10.0	09/15/17
17I0317-05 [WS-AOC-15-SO-32-2]	B186360	10.4	10.0	09/15/17
17I0317-06 [WS-AOC-15-SO-32-3]	B186360	10.6	10.0	09/15/17
17I0317-07 [WS-AOC-6-SO-11-1]	B186360	10.2	10.0	09/15/17
17I0317-08 [WS-AOC-6-SO-11-2]	B186360	10.0	10.0	09/15/17
17I0317-09 [WS-AOC-6-SO-11-3]	B186360	10.1	10.0	09/15/17
17I0317-10 [WS-AOC-6-SO-11-4]	B186360	10.2	10.0	09/15/17
17I0317-11 [WS-AOC-6-SO-6-1]	B186360	10.5	10.0	09/15/17
17I0317-12 [WS-AOC-6-SO-6-2]	B186360	10.5	10.0	09/15/17
17I0317-13 [WS-AOC-6-SO-6-3]	B186360	10.5	10.0	09/15/17
17I0317-14 [WS-AOC-6-SO-6-4]	B186360	10.3	10.0	09/15/17
17I0317-15 [WS-AOC-6-SO-12-1]	B186360	10.6	10.0	09/15/17
17I0317-16 [WS-AOC-6-SO-12-2]	B186360	10.2	10.0	09/15/17
17I0317-17 [WS-AOC-6-SO-12-3]	B186360	10.7	10.0	09/15/17
17I0317-18 [WS-AOC-6-SO-12-4]	B186360	10.2	10.0	09/15/17
17I0317-19 [WS-AOC-6-SO-5-1]	B186360	10.0	10.0	09/15/17

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
1710317-20 [WS-AOC-6-SO-5-2]	B186360	10.4	10.0	09/15/17

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 B186360 - SW-846 3540C										
Blank (B186360-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	0.220		mg/Kg wet	0.200		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.213		mg/Kg wet	0.200		106	30-150			
LCS (B186360-BS1)										
Prepared: 09/15/17 Analyzed: 09/19/17										
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		95.9	40-140			
Aroclor-1016 [2C]	0.21	0.020	mg/Kg wet	0.200		107	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.2	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		89.4	40-140			
Surrogate: Decachlorobiphenyl	0.218		mg/Kg wet	0.200		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.201		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.210		mg/Kg wet	0.200		105	30-150			
LCS Dup (B186360-BSD1)										
Prepared: 09/15/17 Analyzed: 09/19/17										
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.1	40-140	7.36	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		99.1	40-140	7.48	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		85.2	40-140	8.89	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.1	40-140	9.73	30	
Surrogate: Decachlorobiphenyl	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.185		mg/Kg wet	0.200		92.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.191		mg/Kg wet	0.200		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.199		mg/Kg wet	0.200		99.5	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 B186360 - SW-846 3540C										
Matrix Spike (B186360-MS1) Source: 1710317-08 Prepared: 09/15/17 Analyzed: 09/19/17										
Aroclor-1016	0.24	0.087	mg/Kg dry	0.219	ND	112	40-140			
Aroclor-1016 [2C]	0.24	0.087	mg/Kg dry	0.219	ND	108	40-140			
Aroclor-1260	0.19	0.087	mg/Kg dry	0.219	ND	84.6	40-140			
Aroclor-1260 [2C]	0.18	0.087	mg/Kg dry	0.219	ND	82.7	40-140			
Surrogate: Decachlorobiphenyl	0.210		mg/Kg dry	0.219		95.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.204		mg/Kg dry	0.219		93.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.214		mg/Kg dry	0.219		97.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.221		mg/Kg dry	0.219		101	30-150			
Matrix Spike (B186360-MS2) Source: 1710317-09 Prepared: 09/15/17 Analyzed: 09/20/17										
Aroclor-1016	0.20	0.088	mg/Kg dry	0.219	ND	90.3	40-140			
Aroclor-1016 [2C]	0.21	0.088	mg/Kg dry	0.219	ND	95.0	40-140			
Aroclor-1260	0.14	0.088	mg/Kg dry	0.219	ND	65.9	40-140			
Aroclor-1260 [2C]	0.15	0.088	mg/Kg dry	0.219	ND	66.8	40-140			
Surrogate: Decachlorobiphenyl	0.170		mg/Kg dry	0.219		77.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.286		mg/Kg dry	0.219		130	30-150			
Surrogate: Tetrachloro-m-xylene	0.152		mg/Kg dry	0.219		69.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.167		mg/Kg dry	0.219		76.2	30-150			
Matrix Spike (B186360-MS3) Source: 1710317-12 Prepared: 09/15/17 Analyzed: 09/20/17										
Aroclor-1016	0.26	0.088	mg/Kg dry	0.220	ND	116	40-140			
Aroclor-1016 [2C]	0.25	0.088	mg/Kg dry	0.220	ND	115	40-140			
Aroclor-1260	0.32	0.088	mg/Kg dry	0.220	0.12	91.4	40-140			
Aroclor-1260 [2C]	0.33	0.088	mg/Kg dry	0.220	0.10	104	40-140			
Surrogate: Decachlorobiphenyl	0.214		mg/Kg dry	0.220		97.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.213		mg/Kg dry	0.220		96.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.220		mg/Kg dry	0.220		99.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.226		mg/Kg dry	0.220		103	30-150			
Matrix Spike (B186360-MS4) Source: 1710317-16 Prepared: 09/15/17 Analyzed: 09/20/17										
Aroclor-1016	0.28	0.089	mg/Kg dry	0.223	ND	124	40-140			
Aroclor-1016 [2C]	0.29	0.089	mg/Kg dry	0.223	ND	128	40-140			
Aroclor-1260	0.20	0.089	mg/Kg dry	0.223	ND	89.2	40-140			
Aroclor-1260 [2C]	0.19	0.089	mg/Kg dry	0.223	ND	86.3	40-140			
Surrogate: Decachlorobiphenyl	0.211		mg/Kg dry	0.223		94.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.220		mg/Kg dry	0.223		98.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.214		mg/Kg dry	0.223		95.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.224		mg/Kg dry	0.223		100	30-150			
Matrix Spike Dup (B186360-MSD1) Source: 1710317-08 Prepared: 09/15/17 Analyzed: 09/20/17										
Aroclor-1016	0.24	0.092	mg/Kg dry	0.231	ND	104	40-140	1.83	50	
Aroclor-1016 [2C]	0.22	0.092	mg/Kg dry	0.231	ND	96.3	40-140	5.77	50	
Aroclor-1260	0.18	0.092	mg/Kg dry	0.231	ND	79.6	40-140	0.637	50	
Aroclor-1260 [2C]	0.18	0.092	mg/Kg dry	0.231	ND	78.0	40-140	0.341	50	
Surrogate: Decachlorobiphenyl	0.195		mg/Kg dry	0.231		84.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.190		mg/Kg dry	0.231		82.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.207		mg/Kg dry	0.231		89.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.213		mg/Kg dry	0.231		92.3	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 B186360 - SW-846 3540C										
Matrix Spike Dup (B186360-MSD2)										
		Source: 1710317-09			Prepared: 09/15/17 Analyzed: 09/20/17					
Aroclor-1016	0.22	0.088	mg/Kg dry	0.221	ND	97.2	40-140	8.36	50	
Aroclor-1016 [2C]	0.20	0.088	mg/Kg dry	0.221	ND	90.8	40-140	3.56	50	
Aroclor-1260	0.15	0.088	mg/Kg dry	0.221	ND	66.6	40-140	2.05	50	
Aroclor-1260 [2C]	0.15	0.088	mg/Kg dry	0.221	ND	67.0	40-140	1.36	50	
Surrogate: Decachlorobiphenyl	0.174		mg/Kg dry	0.221		78.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.258		mg/Kg dry	0.221		116	30-150			
Surrogate: Tetrachloro-m-xylene	0.164		mg/Kg dry	0.221		73.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.175		mg/Kg dry	0.221		79.3	30-150			
Matrix Spike Dup (B186360-MSD3)										
		Source: 1710317-12			Prepared: 09/15/17 Analyzed: 09/20/17					
Aroclor-1016	0.27	0.089	mg/Kg dry	0.223	ND	119	40-140	3.42	50	
Aroclor-1016 [2C]	0.26	0.089	mg/Kg dry	0.223	ND	116	40-140	1.70	50	
Aroclor-1260	0.33	0.089	mg/Kg dry	0.223	0.12	94.1	40-140	2.44	50	
Aroclor-1260 [2C]	0.33	0.089	mg/Kg dry	0.223	0.10	104	40-140	0.482	50	
Surrogate: Decachlorobiphenyl	0.217		mg/Kg dry	0.223		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.223		mg/Kg dry	0.223		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.227		mg/Kg dry	0.223		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.235		mg/Kg dry	0.223		106	30-150			
Matrix Spike Dup (B186360-MSD4)										
		Source: 1710317-16			Prepared: 09/15/17 Analyzed: 09/20/17					
Aroclor-1016	0.27	0.089	mg/Kg dry	0.222	ND	120	40-140	4.36	50	
Aroclor-1016 [2C]	0.25	0.089	mg/Kg dry	0.222	ND	114	40-140	12.0	50	
Aroclor-1260	0.20	0.089	mg/Kg dry	0.222	ND	87.9	40-140	1.97	50	
Aroclor-1260 [2C]	0.19	0.089	mg/Kg dry	0.222	ND	87.6	40-140	0.912	50	
Surrogate: Decachlorobiphenyl	0.215		mg/Kg dry	0.222		96.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.232		mg/Kg dry	0.222		105	30-150			
Surrogate: Tetrachloro-m-xylene	0.213		mg/Kg dry	0.222		95.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.226		mg/Kg dry	0.222		102	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			
Matrix Spike (B186332-MS1)										
			Source: 17I0317-12		Prepared: 09/15/17 Analyzed: 09/20/17					
CT ETPH	332	57	mg/Kg dry	37.7	458	-333 *	50-150			MS-09
Surrogate: o-Terphenyl	2.04		mg/Kg dry	3.77		54.2	50-150			
Matrix Spike Dup (B186332-MSD1)										
			Source: 17I0317-12		Prepared: 09/15/17 Analyzed: 09/20/17					
CT ETPH	296	57	mg/Kg dry	37.8	458	-428 *	50-150	11.5	30	MS-09
Surrogate: o-Terphenyl	1.69		mg/Kg dry	3.78		44.6 *	50-150			S-23

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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-DUP1)										
		Source: 17I0317-08		Prepared: 09/14/17 Analyzed: 09/15/17						
% Solids	86.6		% Wt		86.1			0.579	20	
Duplicate (B186207-DUP2)										
		Source: 17I0317-09		Prepared: 09/14/17 Analyzed: 09/15/17						
% Solids	87.4		% Wt		88.8			1.59	20	
Duplicate (B186207-DUP3)										
		Source: 17I0317-12		Prepared: 09/14/17 Analyzed: 09/15/17						
% Solids	88.9		% Wt		88.1			0.904	20	
Duplicate (B186207-DUP4)										
		Source: 17I0317-16		Prepared: 09/14/17 Analyzed: 09/15/17						
% Solids	87.4		% Wt		88.6			1.36	20	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC-6-SO-11-1

SW-846 8082A

Lab Sample ID: 1710317-07 Date(s) Analyzed: 09/19/2017 09/19/2017

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	0.18	
	2	0.000	-0.030	0.030	0.14	25.0
Aroclor-1268	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.14	13.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

WS-AOC-6-SO-6-1

Lab Sample ID: 1710317-11 Date(s) Analyzed: 09/19/2017 09/19/2017

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	0.14	
	2	0.000	-0.030	0.030	0.13	7.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

WS-AOC-6-SO-6-2

Lab Sample ID: 1710317-12 Date(s) Analyzed: 09/19/2017 09/19/2017

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	0.10	18.2
Aroclor-1268	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.12	15.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

WS-AOC-6-SO-12-1

Lab Sample ID: 1710317-15 Date(s) Analyzed: 09/20/2017 09/20/2017

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	0.78	
	2	0.000	-0.030	0.030	0.68	13.7
Aroclor-1268	1	0.000	-0.030	0.030	2.7	
	2	0.000	-0.030	0.030	2.4	11.8

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC-6-SO-12-4

SW-846 8082A

Lab Sample ID: 1710317-18 Date(s) Analyzed: 09/19/2017 09/19/2017

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

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

WS-AOC-6-SO-5-1

Lab Sample ID: 1710317-19 Date(s) Analyzed: 09/19/2017 09/19/2017

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	0.14	
	2	0.000	-0.030	0.030	0.14	0.0
Aroclor-1268	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.14	13.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

WS-AOC-6-SO-5-2

Lab Sample ID: 1710317-20 Date(s) Analyzed: 09/19/2017 09/19/2017

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	0.14	
	2	0.000	-0.030	0.030	0.14	0.0
Aroclor-1268	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.13	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-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-23	Surrogate recovery outside of control limits in BS/MS spiked sample, all reported analytes are within control criteria, data not significantly affected.

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

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 Public 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



Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com
Weston & Sampson Engineers
273 Dividend Rd Rocky Hill, CT

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 #:

39 Spruce Street
East Longmeadow, MA 01028

of Containers
 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:
 1 = 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)

ANALYSIS REQUESTED

1	WS-AD-15-SD-35-1	9/18/17	0938	X	S	U	X
2	WS-AD-15-SD-35-2	9/18/17	0939	X	S	U	X
3	WS-AD-15-SD-35-3	9/18/17	0940	X	S	U	X
4	WS-AD-15-SD-32-1	9/18/17	0930	X	S	U	X
5	WS-AD-15-SD-32-2	9/18/17	0931	X	S	U	X
6	WS-AD-15-SD-32-3	9/18/17	0932	X	S	U	X
7	WS-AD-6-SD-11-1	9/18/17	1023	X	S	U	X
8	WS-AD-6-SD-11-2	9/18/17	1024	X	S	U	X
9	WS-AD-6-SD-11-3	9/18/17	1025	X	S	U	X
10	WS-AD-6-SD-11-4	9/18/17	1026	X	S	U	X

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

Request for possible SPLP analyses.
 200cc of WS/MSO for WS-AD-6-SD-11-2 and WS-AD-6-SD-11-3 for PCBs.

Detection Limit Requirements

Relinquished by: (signature)	Date/Time: 9/18/17 1520	MA
Received by: (signature)	Date/Time: 9/19/17 1520	
Relinquished by: (signature)	Date/Time: 9/18/17 1540	CT
Received by: (signature)	Date/Time: 9/19/17 1545	Other
Relinquished by: (signature)	Date/Time: 9/18/17 17:06	
Received by: (signature)	Date/Time: 9/19/17 1706	

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



Phone: 413-525-2332
Fax: 413-525-6405

of Containers
Preservation Code
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:
1 = 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)

Requested Turnaround Time	7-Day	10-Day	5-Day	Other:
Rush Approval Required	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Data Delivery	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> EXCEL

Enhanced Data Package Required:

Email To: bee@erm.com

Fax To #:

Company Name: Weston & Sampson Engineers
Address: 273 Dividend Rd Rocky 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: Malcolm Beeler
Invoice Recipient: Malcolm Beeler (Weston & Sampson)
Sampled By: Chris Berthiaume/Will Sirotnak

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-PDC-6-30-6-1	9/8/17	1020		X	S	U
12	WS-PDC-6-30-6-2		1021				
13	WS-PDC-6-30-6-3		1022				
14	WS-PDC-6-30-6-4		1023				
15	WS-PDC-6-30-12-1		1040				
16	WS-PDC-6-30-12-2		1041				
17	WS-PDC-6-30-12-3		1042				
18	WS-PDC-6-30-12-4		1043				
19	WS-PDC-6-30-5-1		1045				
20	WS-PDC-6-30-5-2		1046				

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

Program Information

MCP Analytical Certification Form Required
 RCP Analytical Certification Form Required
 MA State DW Form Required

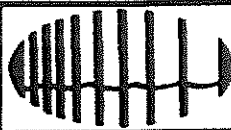
PWSID # _____

NECAC 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

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
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\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\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
 1710380-07
 1710380-08
 1710408-01
 1710408-02
 1710408-03
 1710408-04
 1710408-05
 1710408-06
 1710408-07
 1710408-08
 1710539-06
 1710539-07

D:\HPCHEM1\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



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: 17I0317

Laboratory Sample ID(s):

Sample Date(s):

17I0317-01 thru 17I0317-20

09/08/2017

List RCP Methods Used:

CTDEP ETPH, 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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: 09/20/17

Name of Laboratory: Con-Test Analytical Laboratory

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

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,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

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: 1710321

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	1710321-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-108-1	1710321-02	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC-12W-SO-108-2	1710321-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-108-3	1710321-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-106-1	1710321-05	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC-12W-SO-106-2	1710321-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-106-3	1710321-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-DUP52	1710321-08	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-DUP53	1710321-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP54	1710321-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP55	1710321-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP56	1710321-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP57	1710321-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP58	1710321-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-DUP59	1710321-15	Soil		SM 2540G	
				SW-846 8082A	

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

1710321-02[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

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: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-3

Sampled: 9/8/2017 13:06

Sample ID: 1710321-01

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	

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: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-3

Sampled: 9/8/2017 13:06

Sample ID: 1710321-01

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

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: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1

Sampled: 9/8/2017 13:27

Sample ID: 1710321-02

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1

Sampled: 9/8/2017 13:27

Sample ID: 1710321-02

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	

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1

Sampled: 9/8/2017 13:27

Sample ID: 1710321-02

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1

Sampled: 9/8/2017 13:27

Sample ID: 1710321-02

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-2

Sampled: 9/8/2017 13:28

Sample ID: 1710321-03

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-2

Sampled: 9/8/2017 13:28

Sample ID: 1710321-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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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Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-3

Sampled: 9/8/2017 13:29

Sample ID: 1710321-04

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-3

Sampled: 9/8/2017 13:29

Sample ID: 1710321-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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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Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1

Sampled: 9/8/2017 14:23

Sample ID: 1710321-05

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1

Sampled: 9/8/2017 14:23

Sample ID: 1710321-05

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	

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: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1

Sampled: 9/8/2017 14:23

Sample ID: 1710321-05

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	

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: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1

Sampled: 9/8/2017 14:23

Sample ID: 1710321-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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

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: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-2

Sampled: 9/8/2017 14:24

Sample ID: 1710321-06

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	

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: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-2

Sampled: 9/8/2017 14:24

Sample ID: 1710321-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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

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: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-3

Sampled: 9/8/2017 14:25

Sample ID: 1710321-07

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	

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: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-3

Sampled: 9/8/2017 14:25

Sample ID: 1710321-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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

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: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP52

Sampled: 9/8/2017 00:00

Sample ID: 1710321-08

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	

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: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP52

Sampled: 9/8/2017 00:00

Sample ID: 1710321-08

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	

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: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP52

Sampled: 9/8/2017 00:00

Sample ID: 1710321-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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

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: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP53

Sampled: 9/8/2017 00:00

Sample ID: 1710321-09

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	

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: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP53

Sampled: 9/8/2017 00:00

Sample ID: 1710321-09

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

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: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP54

Sampled: 9/8/2017 00:00

Sample ID: 1710321-10

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	

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: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP54

Sampled: 9/8/2017 00:00

Sample ID: 1710321-10

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

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: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP55

Sampled: 9/8/2017 00:00

Sample ID: 1710321-11

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	

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: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP55

Sampled: 9/8/2017 00:00

Sample ID: 1710321-11

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

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: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP56

Sampled: 9/8/2017 00:00

Sample ID: 1710321-12

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	

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: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP56

Sampled: 9/8/2017 00:00

Sample ID: 1710321-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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

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: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP57

Sampled: 9/8/2017 00:00

Sample ID: 1710321-13

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	

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: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP57

Sampled: 9/8/2017 00:00

Sample ID: 1710321-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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

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: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP58

Sampled: 9/8/2017 00:00

Sample ID: 1710321-14

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	

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP58

Sampled: 9/8/2017 00:00

Sample ID: 1710321-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-DUP59

Sampled: 9/8/2017 00:00

Sample ID: 1710321-15

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	

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-DUP59

Sampled: 9/8/2017 00:00

Sample ID: 1710321-15

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

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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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	2.27		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	2.27		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.

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

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

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 Public 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

Company Name: Weston & Sampson Engineers
Address: 273 Dividend Rd Rocky 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 Sirotiak

Requested Turnaround Time: 7-Day 10-Day Other:
Rush-Approval Required: 1-Day 3-Day 2-Day 4-Day
Data Delivery: Format: PDF EXCEL
Enhanced Data Package Required:
Email To: beelerm@wseinc.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	WS-ADC-12W-20-101-3	9/13/17	1300	X	X	S	U
2	WS-ADC-12W-20-103-1		1327				
3	WS-ADC-12W-20-103-2		1323				
4	WS-ADC-12W-20-103-3		1324				
5	WS-ADC-12W-20-100-1		1423				
6	WS-ADC-12W-20-100-2		1424				
7	WS-ADC-12W-20-100-3		1425				
8	WS-ADC-15-20-100P52						
9	WS-ADC-15-20-100P53						

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

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

Preservation Codes:
 1 = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Thiosulfate
 O = Other (please define)

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

Disolved Metals Samples:
 Field Filtered
 Lab to Filter

Orthophosphate Samples:
 Field Filtered
 Lab to Filter

ANALYSIS REQUESTED

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

Detection Limit Requirements: MA, CT, Other: _____

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.

RELINQUISHED BY (SIGNATURE) DATE/TIME:
 9/15/17 1520
 9/18/17 1520
 9/18/17 1540
 9/18/17 1545
 9/18/17 1707
 9/18/17 1707

1710321

Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com
Weston & Sampson Engineers
273 Dividend Rd Rocky Hill, CT

860 513-1473

English Station

510 Grand Ave, New Haven, CT

2170495

Malcolm Beeler

Malcolm Beeler (Weston & Sampson)

Chris Berthiaume/Will Sirotinak

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: bee@irm@wseinc.com
 Fax To #:

of Containers
 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)

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
10	WS-POL-6-30-DUP54	9/2/17			X	S	U
11	WS-POL-6-30-DUP55						
12	WS-POL-6-30-DUP56						
13	WS-POL-6-30-DUP57						
14	WS-POL-6-30-DUP58						
15	WS-POL-12N-30-DUP59						

ANALYSIS REQUESTED

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

Comments:
 Please hold excess volumes for possible SPLP analyses.

Relinquished by: (signature)	Date/Time	Detection Limit Requirements
<i>[Signature]</i>	9/8/17 1520	MA
<i>[Signature]</i>	9/8/17 1520	
<i>[Signature]</i>	9/8/17 1540	RES DEC
<i>[Signature]</i>	9/8/17 1548	
<i>[Signature]</i>	9/8/17 17:07	
<i>[Signature]</i>	9/8/17 1707	

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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 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 _____

Viols	#	Containers	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear <u>15</u>
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

Viols	#	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

1710242-15@20X
 1710244-05@20X
 1710244-14@20X
 1710320-19@5X
 1710321-05@5X
 1710321-08@5X
 1710242-06@20X
 1710242-09@20X
 1710241-04@20X
 1710241-13@20X
 1710456-01@20X

D:\HPCHEM1\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

1710531-03
 1710531-04
 1710656-01
 1710378-12@5X
 1710378-14@10X
 1710319-08@5X
 1710319-16@5X
 1710320-08@5X
 1710320-12@5X
 1710321-02@20X
 1710455-01@20X
 1710531-01
 1710531-02



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):

Sample Date(s):

17I0321-01 thru 17I0321-15

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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:

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.

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,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

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: 9/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710378

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	1710378-01	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-20-2	1710378-02	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-20-3	1710378-03	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-1	1710378-04	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-2	1710378-05	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-3	1710378-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-4	1710378-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-112-1	1710378-08	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-112-2	1710378-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-112-3	1710378-10	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-111-1	1710378-11	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-111-2	1710378-12	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12W-SO-111-3	1710378-13	Soil		SM 2540G SW-846 6010C-D SW-846 8082A	
WS-AOC-12W-SO-105-1	1710378-14	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12W-SO-105-2	1710378-15	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-105-3	1710378-16	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-110-1	1710378-17	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-110-2	1710378-18	Soil		SM 2540G SW-846 8082A	

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

REPORT DATE: 9/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710378

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	1710378-19	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12W-SO-103-1	1710378-20	Soil		CTDEP ETPH SM 2540G SW-846 8082A	

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**

1710378-12[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**

1710378-01[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**

1710378-04[WS-AOC-9-SO-29-1], 1710378-05[WS-AOC-9-SO-29-2]

Decachlorobiphenyl [2C]

1710378-04[WS-AOC-9-SO-29-1], 1710378-05[WS-AOC-9-SO-29-2]

Tetrachloro-m-xylene

1710378-04[WS-AOC-9-SO-29-1], 1710378-05[WS-AOC-9-SO-29-2]

Tetrachloro-m-xylene [2C]

1710378-04[WS-AOC-9-SO-29-1], 1710378-05[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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1

Sampled: 9/11/2017 11:29

Sample ID: 1710378-01

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1

Sampled: 9/11/2017 11:29

Sample ID: 1710378-01

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1

Sampled: 9/11/2017 11:29

Sample ID: 1710378-01

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-2

Sampled: 9/11/2017 11:30

Sample ID: 1710378-02

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-2

Sampled: 9/11/2017 11:30

Sample ID: 1710378-02

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-3

Sampled: 9/11/2017 11:31

Sample ID: 1710378-03

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-3

Sampled: 9/11/2017 11:31

Sample ID: 1710378-03

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1

Sampled: 9/11/2017 11:46

Sample ID: 1710378-04

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1

Sampled: 9/11/2017 11:46

Sample ID: 1710378-04

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2

Sampled: 9/11/2017 11:47

Sample ID: 1710378-05

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2

Sampled: 9/11/2017 11:47

Sample ID: 1710378-05

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3

Sampled: 9/11/2017 11:48

Sample ID: 1710378-06

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3

Sampled: 9/11/2017 11:48

Sample ID: 1710378-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4

Sampled: 9/11/2017 11:49

Sample ID: 1710378-07

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4

Sampled: 9/11/2017 11:49

Sample ID: 1710378-07

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1

Sampled: 9/11/2017 12:15

Sample ID: 1710378-08

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1

Sampled: 9/11/2017 12:15

Sample ID: 1710378-08

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2

Sampled: 9/11/2017 12:16

Sample ID: 1710378-09

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2

Sampled: 9/11/2017 12:16

Sample ID: 1710378-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3

Sampled: 9/11/2017 12:17

Sample ID: 1710378-10

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3

Sampled: 9/11/2017 12:17

Sample ID: 1710378-10

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1

Sampled: 9/11/2017 09:35

Sample ID: 1710378-11

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1

Sampled: 9/11/2017 09:35

Sample ID: 1710378-11

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2

Sampled: 9/11/2017 09:36

Sample ID: 1710378-12

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2

Sampled: 9/11/2017 09:36

Sample ID: 1710378-12

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2

Sampled: 9/11/2017 09:36

Sample ID: 1710378-12

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3

Sampled: 9/11/2017 09:37

Sample ID: 1710378-13

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3

Sampled: 9/11/2017 09:37

Sample ID: 1710378-13

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3

Sampled: 9/11/2017 09:37

Sample ID: 1710378-13

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1

Sampled: 9/11/2017 09:38

Sample ID: 1710378-14

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1

Sampled: 9/11/2017 09:38

Sample ID: 1710378-14

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1

Sampled: 9/11/2017 09:38

Sample ID: 1710378-14

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2

Sampled: 9/11/2017 09:39

Sample ID: 1710378-15

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2

Sampled: 9/11/2017 09:39

Sample ID: 1710378-15

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3

Sampled: 9/11/2017 09:40

Sample ID: 1710378-16

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3

Sampled: 9/11/2017 09:40

Sample ID: 1710378-16

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1

Sampled: 9/11/2017 09:46

Sample ID: 1710378-17

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1

Sampled: 9/11/2017 09:46

Sample ID: 1710378-17

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2

Sampled: 9/11/2017 09:47

Sample ID: 1710378-18

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2

Sampled: 9/11/2017 09:47

Sample ID: 1710378-18

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3

Sampled: 9/11/2017 09:48

Sample ID: 1710378-19

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3

Sampled: 9/11/2017 09:48

Sample ID: 1710378-19

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3

Sampled: 9/11/2017 09:48

Sample ID: 1710378-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1

Sampled: 9/11/2017 09:54

Sample ID: 1710378-20

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1

Sampled: 9/11/2017 09:54

Sample ID: 1710378-20

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1

Sampled: 9/11/2017 09:54

Sample ID: 1710378-20

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

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

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
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

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			

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: 1710378-09 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: 1710378-12 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: 1710378-15 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: 1710378-18 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: 1710378-09 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: 1710378-12		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: 1710378-15		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: 1710378-18		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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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	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC-9-SO-29-1

SW-846 8082A

Lab Sample ID: 1710378-04 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

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

WS-AOC-9-SO-29-2

Lab Sample ID: 1710378-05 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

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

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

SW-846 8082A

Lab Sample ID: 1710378-09 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

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

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

Lab Sample ID: 1710378-10 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.

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 Public 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

1710378

Phone: 413-525-2332

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Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers
Address: 273 Dividend Rd Rcoy 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 #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
001	WS-PDC-15-50-20-1	9/11/17	1129		X	S	U
002	WS-PDC-15-50-20-2	9/11/17	1130		X	S	U
003	WS-PDC-15-50-20-3	9/11/17	1131		X	S	U
004	WS-PDC-9-50-29-1	9/11/17	1140		X	S	U
005	WS-PDC-9-50-29-2	9/11/17	1147		X	S	U
006	WS-PDC-9-50-29-3	9/11/17	1148		X	S	U
007	WS-PDC-9-50-29-4	9/11/17	1149		X	S	U
008	WS-PDC-12W-50-112-1	9/11/17	1215		X	S	U
009	WS-PDC-12W-50-112-2	9/11/17	1216		X	S	U
010	WS-PDC-12W-50-112-3	9/11/17	1217		X	S	U

Comments: Please hold excess volumes for possible SPLP analyses. Please do MS/MSD for WS-PDC-12W-50-112-2

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

Requisitioned by: (signature)	Date/Time:	Detection Limit Requirements
<i>[Signature]</i>	9/11/17 1445	MA
<i>[Signature]</i>	9/11/17 1445	
<i>[Signature]</i>	9/11/17 1505	RES DEC
<i>[Signature]</i>	9/11/17 1505	
<i>[Signature]</i>	9/11/17 430	
<i>[Signature]</i>	9/11/17 1030	

of Containers
Preservation Code
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)

Program Information

- MCP Analytical Certification Form Required
 - RCP Analytical 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



Company Name: Weston & Sampson Engineers
Address: 273 Dividend Rd Rocky 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 Sirotinak

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 #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-PDC-12W-SD-111-1	9/11/17	0935		X	S	V
12	WS-PDC-12W-SD-111-2	9/11/17	0930		X	S	V
13	WS-PDC-12W-SD-111-3	9/11/17	0937		X	S	V
14	WS-PDC-12W-SD-105-1	9/11/17	0938		X	S	V
15	WS-PDC-12W-SD-105-2	9/11/17	0939		X	S	V
16	WS-PDC-12W-SD-105-3	9/11/17	0940		X	S	V
17	WS-PDC-12W-SD-110-1	9/11/17	0940		X	S	V
18	WS-PDC-12W-SD-110-2	9/11/17	0947		X	S	V
19	WS-PDC-12W-SD-110-3	9/11/17	0948		X	S	V
20	WS-PDC-12W-SD-108-1	9/11/17	0954		X	S	V

Comments:
 Please hold excess volumes for possible SPLP analyses.
 PLEASE DO MMSD ANALYSES FOR WS-PDC-12W-SD-111-2 FOR PCBs AND ETRH, AND
 FOR WS-PDC-12W-SD-105-2 FOR SW PCBs, AND WS-PDC-12W-SD-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 1505
Received by: (signature) Date/Time: 9/11/17 1505

Detection Limit Requirements
 MA
 CT
 RES DEC

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

NETAC 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

of Containers: _____
Preservation Code: _____
Container Code: _____

Dissolved/Metals Samples
 Field Filtered
 Lab to Filter

Orthophosphate Samples
 Field Filtered
 Lab to Filter

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

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) _____

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

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 PLF Date 9/11/17 Time 11:30

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°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
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

1710378-20
 1710380-01
 1710380-03
 1710241-04@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

1710242-15@20X
 1710244-05@20X
 1710244-14@20X
 1710320-19@5X
 1710321-05@5X
 1710321-08@5X
 1710242-06@20X
 1710242-09@20X
 1710241-04@20X
 1710241-13@20X
 1710456-01@20X

D:\HPCHEM1\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

1710531-03
 1710531-04
 1710656-01
 1710378-12@5X
 1710378-14@10X
 1710319-08@5X
 1710319-16@5X
 1710320-08@5X
 1710320-12@5X
 1710321-02@20X
 1710455-01@20X
 1710531-01
 1710531-02

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

1710719-02@5X
 1710719-03@50X
 1710719-05@100X
 1710719-06@100X
 1710719-14@100X
 1710719-01@100X
 1710378-19@5X
 1710379-03@50X
 1710378-01@50X
 1710380-04@5X
 1710380-06@20X
 1710380-02@10X
 1710517-13

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

1710517-04
 1710517-09
 1710517-12
 1710462-04
 1710462-17
 1710462-20
 1710463-12
 1710241-10RE1@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: 1710378

Laboratory Sample ID(s):

Sample Date(s):

1710378-01 thru 1710378-20

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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:

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.

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,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

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: 9/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710378

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	1710378-01	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-20-2	1710378-02	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-20-3	1710378-03	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-1	1710378-04	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-2	1710378-05	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-3	1710378-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-4	1710378-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-112-1	1710378-08	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-112-2	1710378-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-112-3	1710378-10	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-111-1	1710378-11	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-111-2	1710378-12	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12W-SO-111-3	1710378-13	Soil		SM 2540G SW-846 6010C-D SW-846 8082A	
WS-AOC-12W-SO-105-1	1710378-14	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12W-SO-105-2	1710378-15	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-105-3	1710378-16	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-110-1	1710378-17	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-110-2	1710378-18	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: 1710378

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	1710378-19	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12W-SO-103-1	1710378-20	Soil		CTDEP ETPH SM 2540G SW-846 8082A	

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**

1710378-12[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**

1710378-01[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**

1710378-04[WS-AOC-9-SO-29-1], 1710378-05[WS-AOC-9-SO-29-2]

Decachlorobiphenyl [2C]

1710378-04[WS-AOC-9-SO-29-1], 1710378-05[WS-AOC-9-SO-29-2]

Tetrachloro-m-xylene

1710378-04[WS-AOC-9-SO-29-1], 1710378-05[WS-AOC-9-SO-29-2]

Tetrachloro-m-xylene [2C]

1710378-04[WS-AOC-9-SO-29-1], 1710378-05[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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1

Sampled: 9/11/2017 11:29

Sample ID: 1710378-01

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1

Sampled: 9/11/2017 11:29

Sample ID: 1710378-01

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1

Sampled: 9/11/2017 11:29

Sample ID: 1710378-01

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-2

Sampled: 9/11/2017 11:30

Sample ID: 1710378-02

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-2

Sampled: 9/11/2017 11:30

Sample ID: 1710378-02

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-3

Sampled: 9/11/2017 11:31

Sample ID: 1710378-03

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-3

Sampled: 9/11/2017 11:31

Sample ID: 1710378-03

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1

Sampled: 9/11/2017 11:46

Sample ID: 1710378-04

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1

Sampled: 9/11/2017 11:46

Sample ID: 1710378-04

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2

Sampled: 9/11/2017 11:47

Sample ID: 1710378-05

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2

Sampled: 9/11/2017 11:47

Sample ID: 1710378-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3

Sampled: 9/11/2017 11:48

Sample ID: 1710378-06

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3

Sampled: 9/11/2017 11:48

Sample ID: 1710378-06

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4

Sampled: 9/11/2017 11:49

Sample ID: 1710378-07

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4

Sampled: 9/11/2017 11:49

Sample ID: 1710378-07

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1

Sampled: 9/11/2017 12:15

Sample ID: 1710378-08

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1

Sampled: 9/11/2017 12:15

Sample ID: 1710378-08

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2

Sampled: 9/11/2017 12:16

Sample ID: 1710378-09

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2

Sampled: 9/11/2017 12:16

Sample ID: 1710378-09

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3

Sampled: 9/11/2017 12:17

Sample ID: 1710378-10

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3

Sampled: 9/11/2017 12:17

Sample ID: 1710378-10

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1

Sampled: 9/11/2017 09:35

Sample ID: 1710378-11

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1

Sampled: 9/11/2017 09:35

Sample ID: 1710378-11

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2

Sampled: 9/11/2017 09:36

Sample ID: 1710378-12

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2

Sampled: 9/11/2017 09:36

Sample ID: 1710378-12

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2

Sampled: 9/11/2017 09:36

Sample ID: 1710378-12

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3

Sampled: 9/11/2017 09:37

Sample ID: 1710378-13

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3

Sampled: 9/11/2017 09:37

Sample ID: 1710378-13

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3

Sampled: 9/11/2017 09:37

Sample ID: 1710378-13

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1

Sampled: 9/11/2017 09:38

Sample ID: 1710378-14

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1

Sampled: 9/11/2017 09:38

Sample ID: 1710378-14

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1

Sampled: 9/11/2017 09:38

Sample ID: 1710378-14

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2

Sampled: 9/11/2017 09:39

Sample ID: 1710378-15

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2

Sampled: 9/11/2017 09:39

Sample ID: 1710378-15

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3

Sampled: 9/11/2017 09:40

Sample ID: 1710378-16

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3

Sampled: 9/11/2017 09:40

Sample ID: 1710378-16

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1

Sampled: 9/11/2017 09:46

Sample ID: 1710378-17

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1

Sampled: 9/11/2017 09:46

Sample ID: 1710378-17

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2

Sampled: 9/11/2017 09:47

Sample ID: 1710378-18

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2

Sampled: 9/11/2017 09:47

Sample ID: 1710378-18

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3

Sampled: 9/11/2017 09:48

Sample ID: 1710378-19

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3

Sampled: 9/11/2017 09:48

Sample ID: 1710378-19

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3

Sampled: 9/11/2017 09:48

Sample ID: 1710378-19

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1

Sampled: 9/11/2017 09:54

Sample ID: 1710378-20

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1

Sampled: 9/11/2017 09:54

Sample ID: 1710378-20

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1

Sampled: 9/11/2017 09:54

Sample ID: 1710378-20

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

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

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
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

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 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			

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: 1710378-09 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: 1710378-12 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: 1710378-15 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: 1710378-18 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: 1710378-09 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: 1710378-12			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: 1710378-15			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: 1710378-18			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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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	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC-9-SO-29-1

SW-846 8082A

Lab Sample ID: 1710378-04 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

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

WS-AOC-9-SO-29-2

Lab Sample ID: 1710378-05 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

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

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

SW-846 8082A

Lab Sample ID: 1710378-09 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

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

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

SW-846 8082A

Lab Sample ID: 1710378-10 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.

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 Public 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

1710378

Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers
Address: 273 Dividend Rd Rcooky 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 Other:
Rush-Approval Required:
 1-Day 3-Day Other:
 2-Day 4-Day Other:
Data Delivery:
 PDF EXCEL Other:
Enhanced Data Package Required:
Email To: beelerm@wseinc.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
001	WS-PDC-15-50-20-1	9/11/17	1129		X	S	U
002	WS-PDC-15-50-20-2	9/11/17	1130		X	S	U
003	WS-PDC-15-50-20-3	9/11/17	1131		X	S	U
004	WS-PDC-9-50-29-1	9/11/17	1140		X	S	U
005	WS-PDC-9-50-29-2	9/11/17	1147		X	S	U
006	WS-PDC-9-50-29-3	9/11/17	1148		X	S	U
007	WS-PDC-9-50-29-4	9/11/17	1149		X	S	U
008	WS-PDC-12W-50-112-1	9/11/17	1215		X	S	U
009	WS-PDC-12W-50-112-2	9/11/17	1216		X	S	U
010	WS-PDC-12W-50-112-3	9/11/17	1217		X	S	U

Comments: Please hold excess volumes for possible SPLP analyses. Please do MS/MSD for WS-PDC-12W-50-112-2

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

Requisitioned by: (signature)	Date/Time:	Detection Limit Requirements
<i>[Signature]</i>	9/11/17 1445	MA
<i>[Signature]</i>	9/11/17 1445	
<i>[Signature]</i>	9/11/17 1505	RES DEC
<i>[Signature]</i>	9/11/17 1505	
<i>[Signature]</i>	9/11/17 430	
<i>[Signature]</i>	9/11/17 1030	

of Containers:
Preservation Code:
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)

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

Company Name: Weston & Sampson Engineers Address: 273 Dividend Rd Rocky 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: Malcolm Beeler Invoice Recipient: Malcolm Beeler (Weston & Sampson) Sampled By: Chris Berthiaume/Will Sirotnak		Requested Turnaround Time 7-Day <input checked="" type="checkbox"/> 10-Day <input type="checkbox"/> Other: <input type="checkbox"/> 5-day <input type="checkbox"/> Rush Approval Required 1-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> 4-Day <input type="checkbox"/> Data Delivery Format: PDF <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> Other: <input type="checkbox"/> Enhanced Data Package Required: <input type="checkbox"/> Email To: beelerm@wseinc.com Fax To #:																																																																																								
<table border="1"> <thead> <tr> <th>Con-Test Work Order #</th> <th>Client Sample ID / Description</th> <th>Beginning Date/Time</th> <th>Ending Date/Time</th> <th>Composite</th> <th>Grab</th> <th>Matrix Code</th> <th>Conc Code</th> </tr> </thead> <tbody> <tr><td>11</td><td>WS-PDC-12W-SD-111-1</td><td>9/11/17</td><td>0935</td><td></td><td>X</td><td>S</td><td>V</td></tr> <tr><td>12</td><td>WS-PDC-12W-SD-111-2</td><td>9/11/17</td><td>0930</td><td></td><td>X</td><td>S</td><td>V</td></tr> <tr><td>13</td><td>WS-PDC-12W-SD-111-3</td><td>9/11/17</td><td>0937</td><td></td><td>X</td><td>S</td><td>V</td></tr> <tr><td>14</td><td>WS-PDC-12W-SD-105-1</td><td>9/11/17</td><td>0938</td><td></td><td>X</td><td>S</td><td>V</td></tr> <tr><td>15</td><td>WS-PDC-12W-SD-105-2</td><td>9/11/17</td><td>0939</td><td></td><td>X</td><td>S</td><td>V</td></tr> <tr><td>16</td><td>WS-PDC-12W-SD-105-3</td><td>9/11/17</td><td>0940</td><td></td><td>X</td><td>S</td><td>V</td></tr> <tr><td>17</td><td>WS-PDC-12W-SD-110-1</td><td>9/11/17</td><td>0940</td><td></td><td>X</td><td>S</td><td>V</td></tr> <tr><td>18</td><td>WS-PDC-12W-SD-110-2</td><td>9/11/17</td><td>0947</td><td></td><td>X</td><td>S</td><td>V</td></tr> <tr><td>19</td><td>WS-PDC-12W-SD-110-3</td><td>9/11/17</td><td>0948</td><td></td><td>X</td><td>S</td><td>V</td></tr> <tr><td>20</td><td>WS-PDC-12W-SD-108-1</td><td>9/11/17</td><td>0954</td><td></td><td>X</td><td>S</td><td>V</td></tr> </tbody> </table>	Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	11	WS-PDC-12W-SD-111-1	9/11/17	0935		X	S	V	12	WS-PDC-12W-SD-111-2	9/11/17	0930		X	S	V	13	WS-PDC-12W-SD-111-3	9/11/17	0937		X	S	V	14	WS-PDC-12W-SD-105-1	9/11/17	0938		X	S	V	15	WS-PDC-12W-SD-105-2	9/11/17	0939		X	S	V	16	WS-PDC-12W-SD-105-3	9/11/17	0940		X	S	V	17	WS-PDC-12W-SD-110-1	9/11/17	0940		X	S	V	18	WS-PDC-12W-SD-110-2	9/11/17	0947		X	S	V	19	WS-PDC-12W-SD-110-3	9/11/17	0948		X	S	V	20	WS-PDC-12W-SD-108-1	9/11/17	0954		X	S	V	ANALYSIS REQUESTED PCBs solvent EPH Arsenic	# of Containers Preservation Code Container Code Dissolved/Metals Samples <input type="radio"/> Field Filtered <input type="radio"/> Lab to Filter Orthophosphate Samples <input type="radio"/> Field Filtered <input type="radio"/> Lab to Filter Matrix Codes: GW = Ground Water WW = Waste Water DW = Drinking Water A = Air S = Soil/Solid SL = Sludge O = Other (please define) 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) Container Codes: A = Amber Glass G = Glass P = Plastic ST = Sterile V = Vial S = Summa Canister T = Tedlar Bag O = Other (please define)
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20	WS-PDC-12W-SD-108-1	9/11/17	0954		X	S	V																																																																																			
Comments: Please hold excess volumes for possible SPLP analyses. PLEASE DO MMSD ANALYSIS for WS-PDC-12W-SD-111-2 for PCBs and EPH, and for WS-PDC-12W-SD-105-2 for SW PCBs, and WS-PDC-12W-SD-110-2 for PCBs.																																																																																										
Relinquished by: (signature) [Signature] Date/Time: 9/11/17 1445		Detection Limit Requirements MA																																																																																								
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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.																																																																																										

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 PLF Date 9/11/17 Time 11:30

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°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
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

1710378-20
 1710380-01
 1710380-03
 1710241-04@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

1710242-15@20X
 1710244-05@20X
 1710244-14@20X
 1710320-19@5X
 1710321-05@5X
 1710321-08@5X
 1710242-06@20X
 1710242-09@20X
 1710241-04@20X
 1710241-13@20X
 1710456-01@20X

D:\HPCHEM1\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

1710531-03
 1710531-04
 1710656-01
 1710378-12@5X
 1710378-14@10X
 1710319-08@5X
 1710319-16@5X
 1710320-08@5X
 1710320-12@5X
 1710321-02@20X
 1710455-01@20X
 1710531-01
 1710531-02

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

1710719-02@5X
 1710719-03@50X
 1710719-05@100X
 1710719-06@100X
 1710719-14@100X
 1710719-01@100X
 1710378-19@5X
 1710379-03@50X
 1710378-01@50X
 1710380-04@5X
 1710380-06@20X
 1710380-02@10X
 1710517-13

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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

1710517-04
 1710517-09
 1710517-12
 1710462-04
 1710462-17
 1710462-20
 1710463-12
 1710241-10RE1@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):

Sample Date(s):

17I0378-01 thru 17I0378-20

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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:

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.

October 19, 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,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

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: 10/19/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710378

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-SO-27-1	1710378-01	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC15-SO-27-2	1710378-02	Soil		SM 2540G SW-846 8082A	
WS-AOC15-SO-27-3	1710378-03	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-1	1710378-04	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-2	1710378-05	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-3	1710378-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-9-SO-29-4	1710378-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-112-1	1710378-08	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-112-2	1710378-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-112-3	1710378-10	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-111-1	1710378-11	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-111-2	1710378-12	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12W-SO-111-3	1710378-13	Soil		SM 2540G SW-846 6010C-D SW-846 8082A	
WS-AOC-12W-SO-105-1	1710378-14	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12W-SO-105-2	1710378-15	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-105-3	1710378-16	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-110-1	1710378-17	Soil		SM 2540G SW-846 8082A	
WS-AOC-12W-SO-110-2	1710378-18	Soil		SM 2540G SW-846 8082A	

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

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FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-12W-SO-110-3	1710378-19	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12W-SO-103-1	1710378-20	Soil		CTDEP ETPH SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

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

REVISED REPORT - 10/19/2017 - 17I0378-01 through -03 IDs revised.

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-AOC15-SO-27-1]

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]

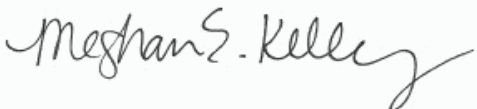
17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

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.



Meghan E. Kelley
Project Manager

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-1

Sampled: 9/11/2017 11:29

Sample ID: 1710378-01

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-1

Sampled: 9/11/2017 11:29

Sample ID: 1710378-01

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-1

Sampled: 9/11/2017 11:29

Sample ID: 1710378-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-2

Sampled: 9/11/2017 11:30

Sample ID: 1710378-02

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-2

Sampled: 9/11/2017 11:30

Sample ID: 1710378-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-3

Sampled: 9/11/2017 11:31

Sample ID: 1710378-03

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-3

Sampled: 9/11/2017 11:31

Sample ID: 1710378-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1

Sampled: 9/11/2017 11:46

Sample ID: 1710378-04

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1

Sampled: 9/11/2017 11:46

Sample ID: 1710378-04

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2

Sampled: 9/11/2017 11:47

Sample ID: 1710378-05

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2

Sampled: 9/11/2017 11:47

Sample ID: 1710378-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3

Sampled: 9/11/2017 11:48

Sample ID: 1710378-06

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3

Sampled: 9/11/2017 11:48

Sample ID: 1710378-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4

Sampled: 9/11/2017 11:49

Sample ID: 1710378-07

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4

Sampled: 9/11/2017 11:49

Sample ID: 1710378-07

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1

Sampled: 9/11/2017 12:15

Sample ID: 1710378-08

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1

Sampled: 9/11/2017 12:15

Sample ID: 1710378-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2

Sampled: 9/11/2017 12:16

Sample ID: 1710378-09

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2

Sampled: 9/11/2017 12:16

Sample ID: 1710378-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3

Sampled: 9/11/2017 12:17

Sample ID: 1710378-10

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3

Sampled: 9/11/2017 12:17

Sample ID: 1710378-10

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1

Sampled: 9/11/2017 09:35

Sample ID: 1710378-11

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1

Sampled: 9/11/2017 09:35

Sample ID: 1710378-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2

Sampled: 9/11/2017 09:36

Sample ID: 1710378-12

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2

Sampled: 9/11/2017 09:36

Sample ID: 1710378-12

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2

Sampled: 9/11/2017 09:36

Sample ID: 1710378-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3

Sampled: 9/11/2017 09:37

Sample ID: 1710378-13

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3

Sampled: 9/11/2017 09:37

Sample ID: 1710378-13

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3

Sampled: 9/11/2017 09:37

Sample ID: 1710378-13

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1

Sampled: 9/11/2017 09:38

Sample ID: 1710378-14

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1

Sampled: 9/11/2017 09:38

Sample ID: 1710378-14

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1

Sampled: 9/11/2017 09:38

Sample ID: 1710378-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2

Sampled: 9/11/2017 09:39

Sample ID: 1710378-15

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2

Sampled: 9/11/2017 09:39

Sample ID: 1710378-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3

Sampled: 9/11/2017 09:40

Sample ID: 1710378-16

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3

Sampled: 9/11/2017 09:40

Sample ID: 1710378-16

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1

Sampled: 9/11/2017 09:46

Sample ID: 1710378-17

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1

Sampled: 9/11/2017 09:46

Sample ID: 1710378-17

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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2

Sampled: 9/11/2017 09:47

Sample ID: 1710378-18

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2

Sampled: 9/11/2017 09:47

Sample ID: 1710378-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3

Sampled: 9/11/2017 09:48

Sample ID: 1710378-19

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3

Sampled: 9/11/2017 09:48

Sample ID: 1710378-19

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	

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3

Sampled: 9/11/2017 09:48

Sample ID: 1710378-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1

Sampled: 9/11/2017 09:54

Sample ID: 1710378-20

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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1

Sampled: 9/11/2017 09:54

Sample ID: 1710378-20

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1

Sampled: 9/11/2017 09:54

Sample ID: 1710378-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-01 [WS-AOC15-SO-27-1]	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-AOC15-SO-27-1]	B186437	09/18/17
17I0378-02 [WS-AOC15-SO-27-2]	B186437	09/18/17
17I0378-03 [WS-AOC15-SO-27-3]	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-AOC15-SO-27-1]	B186484	10.1	10.0	09/18/17
17I0378-02 [WS-AOC15-SO-27-2]	B186484	10.2	10.0	09/18/17
17I0378-03 [WS-AOC15-SO-27-3]	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: 1710378-09		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: 1710378-12		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: 1710378-15		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: 1710378-18		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: 1710378-09		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: 1710378-12			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: 1710378-15			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: 1710378-18			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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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: 1710378-12		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: 1710378-12		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: 1710378-09		Prepared: 09/18/17 Analyzed: 09/19/17							
% Solids	92.2		% Wt		93.3			1.19	20	
Duplicate (B186437-DUP2)	Source: 1710378-12		Prepared: 09/18/17 Analyzed: 09/19/17							
% Solids	96.1		% Wt		96.6			0.519	20	
Duplicate (B186437-DUP3)	Source: 1710378-15		Prepared: 09/18/17 Analyzed: 09/19/17							
% Solids	92.8		% Wt		93.5			0.751	20	
Duplicate (B186437-DUP4)	Source: 1710378-18		Prepared: 09/18/17 Analyzed: 09/19/17							
% Solids	96.0		% Wt		96.3			0.312	20	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC-9-SO-29-1

SW-846 8082A

Lab Sample ID: 1710378-04 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

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC-9-SO-29-2

SW-846 8082A

Lab Sample ID: 1710378-05 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

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

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

SW-846 8082A

Lab Sample ID: 1710378-09 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

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

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

SW-846 8082A

Lab Sample ID: 1710378-10 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.

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 Public 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

1710378

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Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers
Address: 273 Dividend Rd Rcooky 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 #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
001	WS-PDC-15-50-20-1	9/11/17	1129		X	S	U
002	WS-PDC-15-50-20-2	9/11/17	1130		X	S	U
003	WS-PDC-15-50-20-3	9/11/17	1131		X	S	U
004	WS-PDC-9-50-29-1	9/11/17	1140		X	S	U
005	WS-PDC-9-50-29-2	9/11/17	1147		X	S	U
006	WS-PDC-9-50-29-3	9/11/17	1148		X	S	U
007	WS-PDC-9-50-29-4	9/11/17	1149		X	S	U
008	WS-PDC-12W-50-112-1	9/11/17	1215		X	S	U
009	WS-PDC-12W-50-112-2	9/11/17	1216		X	S	U
010	WS-PDC-12W-50-112-3	9/11/17	1217		X	S	U

Comments: Please hold excess volumes for possible SPLP analyses. Please do MS/MSD for WS-PDC-12W-50-112-2

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

Requisitioned by: (signature)	Date/Time:	Detection Limit Requirements
<i>[Signature]</i>	9/11/17 1445	MA
<i>[Signature]</i>	9/11/17 1445	
<i>[Signature]</i>	9/11/17 1505	RES DEC
<i>[Signature]</i>	9/11/17 1505	
<i>[Signature]</i>	9/11/17 430	
<i>[Signature]</i>	9/11/17 1030	

of Containers
Preservation Code
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)

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

Company Name: Weston & Sampson Engineers
Address: 273 Dividend Rd Rooky 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 #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-PDC-12W-SD-111-1	9/11/17	0935		X	S	U
12	WS-PDC-12W-SD-111-2	9/11/17	0930		X	S	U
13	WS-PDC-12W-SD-111-3	9/11/17	0937		X	S	U
14	WS-PDC-12W-SD-105-1	9/11/17	0938		X	S	U
15	WS-PDC-12W-SD-105-2	9/11/17	0939		X	S	U
16	WS-PDC-12W-SD-105-3	9/11/17	0940		X	S	U
17	WS-PDC-12W-SD-110-1	9/11/17	0940		X	S	U
18	WS-PDC-12W-SD-110-2	9/11/17	0947		X	S	U
19	WS-PDC-12W-SD-110-3	9/11/17	0948		X	S	U
20	WS-PDC-12W-SD-108-1	9/11/17	0954		X	S	U

ANALYSIS REQUESTED

- 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)

# of Containers	Preservation Code	Container Code
1		
1		
1		

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 DO NOT MIX/DSD ANALYSIS FOR WS-PDC-12W-SD-111-2 FOR PCBs AND ETRH, AND FOR WS-PDC-12W-SD-105-2, FOR ONLY PCBs, AND WS-PDC-12W-SD-110-2 FOR PCBs.

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 1030

Detection Limit Requirements
 MA
 CT
 RES DEC
 Other:

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

NEELAC 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

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 PLF Date 9/11/17 Time 11:30

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°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 <u>28</u>
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

1710378-20
 1710380-01
 1710380-03
 1710241-04@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

1710242-15@20X
 1710244-05@20X
 1710244-14@20X
 1710320-19@5X
 1710321-05@5X
 1710321-08@5X
 1710242-06@20X
 1710242-09@20X
 1710241-04@20X
 1710241-13@20X
 1710456-01@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

1710531-03
 1710531-04
 1710656-01
 1710378-12@5X
 1710378-14@10X
 1710319-08@5X
 1710319-16@5X
 1710320-08@5X
 1710320-12@5X
 1710321-02@20X
 1710455-01@20X
 1710531-01
 1710531-02

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

1710719-02@5X
 1710719-03@50X
 1710719-05@100X
 1710719-06@100X
 1710719-14@100X
 1710719-01@100X
 1710378-19@5X
 1710379-03@50X
 1710378-01@50X
 1710380-04@5X
 1710380-06@20X
 1710380-02@10X
 1710517-13

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

1710517-04
 1710517-09
 1710517-12
 1710462-04
 1710462-17
 1710462-20
 1710463-12
 1710241-10RE1@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: 1710378

Laboratory Sample ID(s):

Sample Date(s):

1710378-01 thru 1710378-20

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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:

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.

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,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

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: 9/28/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710465

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	1710465-01	Product/Solid		SW-846 8082A	
WS-AOC15-AS-22	1710465-02	Product/Solid		SW-846 8082A	
WS-AOC15-AS-23	1710465-03	Product/Solid		SW-846 8082A	
WS-AOC15-AS-24	1710465-04	Product/Solid		SW-846 8082A	
WS-AOC15-AS-25	1710465-05	Product/Solid		SW-846 8082A	
WS-AOC15-AS-26	1710465-06	Product/Solid		SW-846 8082A	
WS-AOC15-AS-27	1710465-07	Product/Solid		SW-846 8082A	
WS-AOC15-AS-28	1710465-08	Product/Solid		SW-846 8082A	
WS-AOC15-AS-30	1710465-09	Product/Solid		SW-846 8082A	
WS-AOC15-AS-31	1710465-10	Product/Solid		SW-846 8082A	
WS-AOC15-AS-32	1710465-11	Product/Solid		SW-846 8082A	
WS-AOC15-AS-33	1710465-12	Product/Solid		SW-846 8082A	
WS-AOC15-AS-34	1710465-13	Product/Solid		SW-846 8082A	
WS-AOC15-AS-35	1710465-14	Product/Solid		SW-846 8082A	
WS-AOC15-AS-36	1710465-15	Product/Solid		SW-846 8082A	
WS-AOC15-AS-37	1710465-16	Product/Solid		SW-846 8082A	
WS-AOC12N-AS-1	1710465-17	Product/Solid		SW-846 8082A	
WS-AOC12N-AS-2	1710465-18	Product/Solid		SW-846 8082A	
WS-AOC12N-AS-3	1710465-19	Product/Solid		SW-846 8082A	
WS-AOC12N-AS-4	1710465-20	Product/Solid		SW-846 8082A	
WS-AOC15-AS-Dup20	1710465-21	Product/Solid		SW-846 8082A	
WS-AOC12N-AS-Dup21	1710465-22	Product/Solid		SW-846 8082A	
WS-AOC15-SE-29	1710465-23	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

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

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**

1710465-23[WS-AOC15-SE-29], B186613-BS1, B186613-BSD1

Zinc

1710465-23[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**

1710465-23[WS-AOC15-SE-29], B186613-BLK1

Zinc

1710465-23[WS-AOC15-SE-29], B186613-BLK1

SW-846 8082A

Qualifications:**DL-03**

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

1710465-02RE1[WS-AOC15-AS-22], 1710465-21[WS-AOC15-AS-Dup20], 1710465-22[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**

1710465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

1710465-23[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**

1710465-23[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**

1710465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

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**

1710465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

4,6-Dinitro-2-methylphenol

1710465-23[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**

1710465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

4,6-Dinitro-2-methylphenol

1710465-23[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

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: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-21

Sampled: 9/12/2017 10:09

Sample ID: 1710465-01

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	

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: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-22

Sampled: 9/12/2017 09:45

Sample ID: 1710465-02

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	

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: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-23

Sampled: 9/12/2017 09:44

Sample ID: 1710465-03

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	

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: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-24

Sampled: 9/12/2017 09:43

Sample ID: 1710465-04

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	

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: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-25

Sampled: 9/12/2017 09:41

Sample ID: 1710465-05

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	

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: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-26

Sampled: 9/12/2017 10:11

Sample ID: 1710465-06

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	

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: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-27

Sampled: 9/12/2017 09:55

Sample ID: 1710465-07

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	

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: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-28

Sampled: 9/12/2017 09:57

Sample ID: 1710465-08

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	

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: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-30

Sampled: 9/12/2017 10:19

Sample ID: 1710465-09

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-31

Sampled: 9/12/2017 10:20

Sample ID: 1710465-10

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-32

Sampled: 9/12/2017 10:21

Sample ID: 1710465-11

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-33

Sampled: 9/12/2017 10:22

Sample ID: 1710465-12

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: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-34

Sampled: 9/12/2017 10:23

Sample ID: 1710465-13

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-35

Sampled: 9/12/2017 10:24

Sample ID: 1710465-14

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-36

Sampled: 9/12/2017 10:25

Sample ID: 1710465-15

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: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-37

Sampled: 9/12/2017 10:26

Sample ID: 1710465-16

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: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-1

Sampled: 9/12/2017 12:30

Sample ID: 1710465-17

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: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-2

Sampled: 9/12/2017 12:35

Sample ID: 1710465-18

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-3

Sampled: 9/12/2017 12:40

Sample ID: 1710465-19

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-4

Sampled: 9/12/2017 12:45

Sample ID: 1710465-20

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-Dup20

Sampled: 9/12/2017 00:00

Sample ID: 1710465-21

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: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-Dup21

Sampled: 9/12/2017 00:00

Sample ID: 1710465-22

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: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29

Sampled: 9/12/2017 12:00

Sample ID: 1710465-23

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: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29

Sampled: 9/12/2017 12:00

Sample ID: 1710465-23

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							
Toluene-d8	99.2	70-130							
4-Bromofluorobenzene	107	70-130							

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29

Sampled: 9/12/2017 12:00

Sample ID: 1710465-23

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: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29

Sampled: 9/12/2017 12:00

Sample ID: 1710465-23

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	
Phenol-d6	50.2	30-130	
Nitrobenzene-d5	47.7	30-130	
2-Fluorobiphenyl	48.2	30-130	
2,4,6-Tribromophenol	46.8	30-130	
p-Terphenyl-d14	61.5	30-130	

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29

Sampled: 9/12/2017 12:00

Sample ID: 1710465-23

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29

Sampled: 9/12/2017 12:00

Sample ID: 1710465-23

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

Sample Description:

Work Order: 1710465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29

Sampled: 9/12/2017 12:00

Sample ID: 1710465-23

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

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
1710465-23 [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
1710465-23 [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
1710465-23 [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
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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							

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
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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			

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
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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			

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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
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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
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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
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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
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Batch B186600 - SW-846 3540C

Matrix Spike (B186600-MS1)

Source: 1710465-07

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: 1710465-07

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
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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: 1710465-21

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: 1710465-21

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							

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 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	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC15-SE-29

SW-846 8082A

Lab Sample ID: 1710465-23 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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6010C-D in Soil</i>	
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
<i>SW-846 7471B in Soil</i>	
Mercury	CT,NH,NY,NC,ME,VA
<i>SW-846 8082A in Product/Solid</i>	
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
<i>SW-846 8082A in Soil</i>	
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

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

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
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 Public 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

1710405



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Company Name: **Weston & Sampson Engineers**
Address: **273 Dividend Rd Rcohy 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: **Malcolm Beeler**
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: **beelem@wseinc.com**
Fax To #: _____

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	WS-AOCIS - AS-21	9/2/17	1007	X	O	U	U
02	WS-AOCIS - AS-22		945				
03	WS-AOCIS - AS-23		944				
04	WS-AOCIS - AS-24		943				
05	WS-AOCIS - AS-25		941				
06	WS-AOCIS - AS-26		1011				
07	WS-AOCIS - AS-27		955				
08	WS-AOCIS - AS-28		957				
09	WS-AOCIS - AS-30		1019				
10	WS-AOCIS - AS-31		1020				

Comments: * - WS-AOCIS - AS-27 - Run MS/MSD Dup l.c.c.t.c.

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	Detection Limit Requirements
<i>[Signature]</i>	9/12/17 1445	MA
<i>[Signature]</i>	9/12/17	RES DEC
<i>[Signature]</i>	9/12/17	CT
<i>[Signature]</i>	9/12/17 1010	Other:
<i>[Signature]</i>		
<i>[Signature]</i>		

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

of Containers
 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)
Pests (soil)
 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)

7710405

Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers

Address: 273 Dividend Rd Rooky 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 5-day

Other: Rush-Approval Required

1-Day 3-Day 4-Day

2-Day 4-Day

Data Delivery: PDF EXCEL Other:

Enhanced Data Package Required:

Email To: beelerm@wseinc.com

Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-AOC15-AS-32	9/12/17	1021	X		O	U
12	WS-AOC15-AS-33		1022				
13	WS-AOC15-AS-34		1023				
14	WS-AOC15-AS-35		1024				
15	WS-AOC15-AS-36		1025				
16	WS-AOC15-AS-37		1026				
17	WS-AOC12N-AS-1		1230				
18	WS-AOC12N-AS-2		1235				
19	WS-AOC12N-AS-3		1240				
20	WS-AOC12N-AS-4		1245				

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:	Detection Limits Requirements
<i>[Signature]</i>	9/12/17 1445	MA
Received by: (signature)	Date/Time:	
<i>[Signature]</i>	9/12/17 1445	RES DEC
Relinquished by: (signature)	Date/Time:	
<i>[Signature]</i>	9/12/17 1445	Other:
Received by: (signature)	Date/Time:	
<i>[Signature]</i>	9/12/17 1445	
Relinquished by: (signature)	Date/Time:	
<i>[Signature]</i>		

ANALYSIS REQUESTED

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

of Containers:

? Preservation Code:

3 Container Code:

Dissolved Metals Samples

Field Filtered
 Lab to Filter

Orthophosphate Samples

Field Filtered
 Lab to Filter

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

Company Name: Contest Labs
Address: Westons & Sampson Engineers
 273 Dividend Rd Rocky 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: Malcolm Beeler
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

Enhanced Data Package Required:
 Email To: beelerm@wseinc.com
 Fax To #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
21	WS-AUC15-AS-Dup 20	9/12/17	-		X	0	0
22	WB-AUC15-AS-Dup 21	-	-		X	0	0
23	WS-AUC15-SE-29	1200			X	S	0

ANALYSIS REQUESTED

PCBs (soxlet)
 PAHs
 RSR 15 Metals
 SVOCs
 VOCs

1 Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil/Solid
 SL = Sludge
 O = Other (please define)
Person's 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)

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

Comments:
 Please hold excess volumes for possible SPLP analyses.

Detection Limit Requirements
 MA
 CT
 Other:

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

RELINQUISHED BY: (signature) Date/Time: 9/12/17 14:45
 RECEIVED BY: (signature) Date/Time: 9/12/17 14:45
 RELINQUISHED BY: (signature) Date/Time: 9/12/17 14:45
 RECEIVED BY: (signature) 4.4 Date/Time: 9/12/17 16:00

RELINQUISHED BY: (signature) Date/Time:
 RECEIVED BY: (signature) Date/Time:

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.

RELAC and AIHA-LAP, LLC Accredited

9/12/17 16:10

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 11:10
 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
Meoh-	1	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
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 11:10

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:

[Empty box for 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: 1710465

Laboratory Sample ID(s):

Sample Date(s):

1710465-01 thru 1710465-23

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.

September 18, 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: 17I0112

Enclosed are results of analyses for samples received by the laboratory on September 5, 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: 9/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710112

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-AOC12E-SO-5-1	1710112-01	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-5-2	1710112-02	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-17-1	1710112-03	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-17-2	1710112-04	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-17-3	1710112-05	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-35-1	1710112-06	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-35-2	1710112-07	Soil		SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC12E-SO-35-3	1710112-08	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-21-1	1710112-09	Soil		SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC12E-SO-21-2	1710112-10	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-21-3	1710112-11	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-25-1	1710112-12	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-25-2	1710112-13	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-25-3	1710112-14	Soil		SM 2540G SW-846 8082A	
WS-AOC15-SO-1-1	1710112-15	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC15-SO-1-2	1710112-16	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: 9/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710112

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-SO-1-3	1710112-17	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-42-1	1710112-18	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-42-2	1710112-19	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-42-3	1710112-20	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-Dup47	1710112-21	Soil		SM 2540G SW-846 8082A	
Equipment Blank - 61	1710112-22	Equipment Blank Water		CTDEP ETPH SW-846 8082A SW-846 8270D	
Equipment Blank - 62	1710112-23	Equipment Blank Water		CTDEP ETPH SW-846 8082A SW-846 8270D	

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:****MS-07A**

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.

Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**CT ETPH**

1710112-03[WS-AOC12E-SO-17-1], B185921-MS1, B185921-MSD1

SW-846 8270D**Qualifications:****RL-12**

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

1710112-07[WS-AOC12E-SO-35-2]

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

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1

Sampled: 9/5/2017 13:30

Sample ID: 1710112-01

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	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		95.4	30-150					9/16/17 14:07	
Decachlorobiphenyl [2]		110	30-150					9/16/17 14:07	
Tetrachloro-m-xylene [1]		95.8	30-150					9/16/17 14:07	
Tetrachloro-m-xylene [2]		91.5	30-150					9/16/17 14:07	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1

Sampled: 9/5/2017 13:30

Sample ID: 1710112-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	110	12	mg/Kg dry	1		CTDEP ETPH	9/11/17	9/12/17 23:59	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		86.3	50-150					9/12/17 23:59	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1

Sampled: 9/5/2017 13:30

Sample ID: 1710112-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-2

Sampled: 9/5/2017 13:31

Sample ID: 1710112-02

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	9/10/17	9/16/17 14:24	JMB
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		93.2	30-150					9/16/17 14:24	
Decachlorobiphenyl [2]		103	30-150					9/16/17 14:24	
Tetrachloro-m-xylene [1]		95.4	30-150					9/16/17 14:24	
Tetrachloro-m-xylene [2]		96.1	30-150					9/16/17 14:24	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-2

Sampled: 9/5/2017 13:31

Sample ID: 1710112-02

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	83.0		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1

Sampled: 9/5/2017 13:40

Sample ID: 1710112-03

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	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		91.2	30-150					9/16/17 14:42	
Decachlorobiphenyl [2]		100	30-150					9/16/17 14:42	
Tetrachloro-m-xylene [1]		94.2	30-150					9/16/17 14:42	
Tetrachloro-m-xylene [2]		95.9	30-150					9/16/17 14:42	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1

Sampled: 9/5/2017 13:40

Sample ID: 1710112-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	260	56	mg/Kg dry	5	MS-07A	CTDEP ETPH	9/11/17	9/12/17 21:20	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		69.1	50-150					9/12/17 21:20	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1

Sampled: 9/5/2017 13:40

Sample ID: 1710112-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-2

Sampled: 9/5/2017 13:41

Sample ID: 1710112-04

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	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		91.2	30-150					9/16/17 14:59	
Decachlorobiphenyl [2]		105	30-150					9/16/17 14:59	
Tetrachloro-m-xylene [1]		91.1	30-150					9/16/17 14:59	
Tetrachloro-m-xylene [2]		95.1	30-150					9/16/17 14:59	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-2

Sampled: 9/5/2017 13:41

Sample ID: 1710112-04

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	85.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-3

Sampled: 9/5/2017 13:42

Sample ID: 1710112-05

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	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		100	30-150					9/16/17 15:17	
Decachlorobiphenyl [2]		112	30-150					9/16/17 15:17	
Tetrachloro-m-xylene [1]		100	30-150					9/16/17 15:17	
Tetrachloro-m-xylene [2]		106	30-150					9/16/17 15:17	

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

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-3

Sampled: 9/5/2017 13:42

Sample ID: 1710112-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1

Sampled: 9/5/2017 14:03

Sample ID: 1710112-06

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	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		77.6	30-150					9/16/17 15:34	
Decachlorobiphenyl [2]		88.3	30-150					9/16/17 15:34	
Tetrachloro-m-xylene [1]		84.8	30-150					9/16/17 15:34	
Tetrachloro-m-xylene [2]		84.3	30-150					9/16/17 15:34	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1

Sampled: 9/5/2017 14:03

Sample ID: 1710112-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1100	240	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 21:02	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		62.2	50-150					9/12/17 21:02	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1

Sampled: 9/5/2017 14:03

Sample ID: 1710112-06

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	84.2		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2

Sampled: 9/5/2017 14:04

Sample ID: 1710112-07

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	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Acenaphthylene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Anthracene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(a)anthracene	0.39	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(a)pyrene	0.40	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(b)fluoranthene	0.49	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(g,h,i)perylene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(k)fluoranthene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Chrysene	0.40	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Dibenz(a,h)anthracene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Fluoranthene	0.68	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Fluorene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Indeno(1,2,3-cd)pyrene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
2-Methylnaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Naphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Phenanthrene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Pyrene	0.67	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		35.1	30-130					9/12/17 17:56	
2-Fluorobiphenyl		37.6	30-130					9/12/17 17:56	
p-Terphenyl-d14		42.2	30-130					9/12/17 17:56	

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

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2

Sampled: 9/5/2017 14:04

Sample ID: 1710112-07

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	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		76.8	30-150					9/16/17 15:52	
Decachlorobiphenyl [2]		86.7	30-150					9/16/17 15:52	
Tetrachloro-m-xylene [1]		88.2	30-150					9/16/17 15:52	
Tetrachloro-m-xylene [2]		92.2	30-150					9/16/17 15:52	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2

Sampled: 9/5/2017 14:04

Sample ID: 1710112-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.4		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-3

Sampled: 9/5/2017 14:05

Sample ID: 1710112-08

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	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		78.4	30-150					9/16/17 16:09	
Decachlorobiphenyl [2]		86.1	30-150					9/16/17 16:09	
Tetrachloro-m-xylene [1]		89.1	30-150					9/16/17 16:09	
Tetrachloro-m-xylene [2]		100	30-150					9/16/17 16:09	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-3

Sampled: 9/5/2017 14:05

Sample ID: 1710112-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1

Sampled: 9/5/2017 14:00

Sample ID: 1710112-09

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	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(a)anthracene	0.32	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(a)pyrene	0.27	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(b)fluoranthene	0.41	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Chrysene	0.45	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Fluoranthene	0.68	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Phenanthrene	0.47	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Pyrene	0.56	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		44.9	30-130					9/12/17 18:24	
2-Fluorobiphenyl		53.0	30-130					9/12/17 18:24	
p-Terphenyl-d14		60.1	30-130					9/12/17 18:24	

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

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1

Sampled: 9/5/2017 14:00

Sample ID: 1710112-09

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	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		78.2	30-150					9/16/17 16:27	
Decachlorobiphenyl [2]		84.8	30-150					9/16/17 16:27	
Tetrachloro-m-xylene [1]		86.6	30-150					9/16/17 16:27	
Tetrachloro-m-xylene [2]		91.5	30-150					9/16/17 16:27	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1

Sampled: 9/5/2017 14:00

Sample ID: 1710112-09

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	83.3		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2

Sampled: 9/5/2017 14:01

Sample ID: 1710112-10

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	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		90.5	30-150					9/16/17 17:32	
Decachlorobiphenyl [2]		99.8	30-150					9/16/17 17:32	
Tetrachloro-m-xylene [1]		94.4	30-150					9/16/17 17:32	
Tetrachloro-m-xylene [2]		100	30-150					9/16/17 17:32	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2

Sampled: 9/5/2017 14:01

Sample ID: 1710112-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	200	62	mg/Kg dry	5		CTDEP ETPH	9/11/17	9/12/17 22:13	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		92.9	50-150					9/12/17 22:13	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2

Sampled: 9/5/2017 14:01

Sample ID: 1710112-10

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	80.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-3

Sampled: 9/5/2017 14:02

Sample ID: 1710112-11

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	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.2	30-150					9/16/17 17:49	
Decachlorobiphenyl [2]		92.2	30-150					9/16/17 17:49	
Tetrachloro-m-xylene [1]		89.8	30-150					9/16/17 17:49	
Tetrachloro-m-xylene [2]		92.4	30-150					9/16/17 17:49	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-3

Sampled: 9/5/2017 14:02

Sample ID: 1710112-11

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	83.2		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-1

Sampled: 9/5/2017 14:14

Sample ID: 1710112-12

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	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		95.6	30-150					9/16/17 18:07	
Decachlorobiphenyl [2]		102	30-150					9/16/17 18:07	
Tetrachloro-m-xylene [1]		110	30-150					9/16/17 18:07	
Tetrachloro-m-xylene [2]		118	30-150					9/16/17 18:07	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-1

Sampled: 9/5/2017 14:14

Sample ID: 1710112-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.6		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2

Sampled: 9/5/2017 14:15

Sample ID: 1710112-13

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	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		88.4	30-150					9/16/17 18:24	
Decachlorobiphenyl [2]		94.8	30-150					9/16/17 18:24	
Tetrachloro-m-xylene [1]		96.3	30-150					9/16/17 18:24	
Tetrachloro-m-xylene [2]		107	30-150					9/16/17 18:24	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2

Sampled: 9/5/2017 14:15

Sample ID: 1710112-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	23	12	mg/Kg dry	1		CTDEP ETPH	9/11/17	9/12/17 18:57	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		82.0	50-150					9/12/17 18:57	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2

Sampled: 9/5/2017 14:15

Sample ID: 1710112-13

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	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-3

Sampled: 9/5/2017 14:16

Sample ID: 1710112-14

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	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		85.4	30-150					9/16/17 18:42	
Decachlorobiphenyl [2]		94.3	30-150					9/16/17 18:42	
Tetrachloro-m-xylene [1]		87.7	30-150					9/16/17 18:42	
Tetrachloro-m-xylene [2]		93.1	30-150					9/16/17 18:42	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-3

Sampled: 9/5/2017 14:16

Sample ID: 1710112-14

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	72.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1

Sampled: 9/5/2017 14:27

Sample ID: 1710112-15

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	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		88.4	30-150					9/16/17 18:59	
Decachlorobiphenyl [2]		98.6	30-150					9/16/17 18:59	
Tetrachloro-m-xylene [1]		95.9	30-150					9/16/17 18:59	
Tetrachloro-m-xylene [2]		102	30-150					9/16/17 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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1

Sampled: 9/5/2017 14:27

Sample ID: 1710112-15

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	220	120	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 22:31	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		51.4	50-150					9/12/17 22:31	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1

Sampled: 9/5/2017 14:27

Sample ID: 1710112-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-2

Sampled: 9/5/2017 14:28

Sample ID: 1710112-16

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	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.9	30-150					9/16/17 19:16	
Decachlorobiphenyl [2]		102	30-150					9/16/17 19:16	
Tetrachloro-m-xylene [1]		94.2	30-150					9/16/17 19:16	
Tetrachloro-m-xylene [2]		89.6	30-150					9/16/17 19:16	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-2

Sampled: 9/5/2017 14:28

Sample ID: 1710112-16

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	80.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-3

Sampled: 9/5/2017 14:29

Sample ID: 1710112-17

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	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		74.4	30-150					9/16/17 19:34	
Decachlorobiphenyl [2]		80.4	30-150					9/16/17 19:34	
Tetrachloro-m-xylene [1]		80.3	30-150					9/16/17 19:34	
Tetrachloro-m-xylene [2]		85.3	30-150					9/16/17 19:34	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-3

Sampled: 9/5/2017 14:29

Sample ID: 1710112-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-1

Sampled: 9/5/2017 14:59

Sample ID: 1710112-18

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	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		82.7	30-150					9/16/17 19:51	
Decachlorobiphenyl [2]		89.4	30-150					9/16/17 19:51	
Tetrachloro-m-xylene [1]		92.2	30-150					9/16/17 19:51	
Tetrachloro-m-xylene [2]		93.5	30-150					9/16/17 19:51	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-1

Sampled: 9/5/2017 14:59

Sample ID: 1710112-18

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.6		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2

Sampled: 9/5/2017 15:00

Sample ID: 1710112-19

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	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		62.7	30-150					9/16/17 20:09	
Decachlorobiphenyl [2]		67.8	30-150					9/16/17 20:09	
Tetrachloro-m-xylene [1]		81.2	30-150					9/16/17 20:09	
Tetrachloro-m-xylene [2]		96.9	30-150					9/16/17 20:09	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2

Sampled: 9/5/2017 15:00

Sample ID: 1710112-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	120	110	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 22:48	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		88.4	50-150					9/12/17 22:48	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2

Sampled: 9/5/2017 15:00

Sample ID: 1710112-19

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	93.0		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-3

Sampled: 9/5/2017 15:01

Sample ID: 1710112-20

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	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		58.9	30-150					9/16/17 20:26	
Decachlorobiphenyl [2]		64.4	30-150					9/16/17 20:26	
Tetrachloro-m-xylene [1]		70.4	30-150					9/16/17 20:26	
Tetrachloro-m-xylene [2]		65.6	30-150					9/16/17 20:26	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-3

Sampled: 9/5/2017 15:01

Sample ID: 1710112-20

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	75.4		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-Dup47

Sampled: 9/5/2017 00:00

Sample ID: 1710112-21

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	9/8/17	9/11/17 18:49	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		73.6	30-150					9/11/17 18:49	
Decachlorobiphenyl [2]		89.8	30-150					9/11/17 18:49	
Tetrachloro-m-xylene [1]		83.6	30-150					9/11/17 18:49	
Tetrachloro-m-xylene [2]		77.2	30-150					9/11/17 18:49	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-Dup47

Sampled: 9/5/2017 00:00

Sample ID: 1710112-21

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	76.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61

Sampled: 9/5/2017 12:00

Sample ID: 1710112-22

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	9/12/17	9/14/17 17:06	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		85.5	30-130					9/14/17 17:06	
2-Fluorobiphenyl		80.0	30-130					9/14/17 17:06	
p-Terphenyl-d14		80.2	30-130					9/14/17 17:06	

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: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61

Sampled: 9/5/2017 12:00

Sample ID: 1710112-22

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	9/11/17	9/14/17 17:16	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		74.3	30-150					9/14/17 17:16	
Decachlorobiphenyl [2]		74.0	30-150					9/14/17 17:16	
Tetrachloro-m-xylene [1]		95.5	30-150					9/14/17 17:16	
Tetrachloro-m-xylene [2]		79.0	30-150					9/14/17 17:16	

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

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61

Sampled: 9/5/2017 12:00

Sample ID: 1710112-22

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	9/11/17	9/12/17 21:02	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		73.7	50-150					9/12/17 21:02	

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

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62

Sampled: 9/5/2017 12:20

Sample ID: 1710112-23

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	9/12/17	9/14/17 17:35	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		86.7	30-130					9/14/17 17:35	
2-Fluorobiphenyl		83.4	30-130					9/14/17 17:35	
p-Terphenyl-d14		81.6	30-130					9/14/17 17:35	

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: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62

Sampled: 9/5/2017 12:20

Sample ID: 1710112-23

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	9/11/17	9/14/17 17:28	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.5	30-150					9/14/17 17:28	
Decachlorobiphenyl [2]		79.1	30-150					9/14/17 17:28	
Tetrachloro-m-xylene [1]		104	30-150					9/14/17 17:28	
Tetrachloro-m-xylene [2]		79.6	30-150					9/14/17 17:28	

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: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62

Sampled: 9/5/2017 12:20

Sample ID: 1710112-23

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	9/11/17	9/12/17 21:20	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		81.8	50-150					9/12/17 21:20	

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-01 [WS-AOC12E-SO-5-1]	B185921	30.0	1.00	09/11/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185921	30.0	1.00	09/11/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185921	30.0	2.00	09/11/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185921	30.0	1.00	09/11/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185921	30.0	1.00	09/11/17
17I0112-15 [WS-AOC15-SO-1-1]	B185921	30.0	1.00	09/11/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185921	30.0	1.00	09/11/17

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185892	1000	1.00	09/11/17
17I0112-23 [Equipment Blank - 62]	B185892	1000	1.00	09/11/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0112-01 [WS-AOC12E-SO-5-1]	B185594	09/06/17
17I0112-02 [WS-AOC12E-SO-5-2]	B185594	09/06/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185594	09/06/17
17I0112-04 [WS-AOC12E-SO-17-2]	B185594	09/06/17
17I0112-05 [WS-AOC12E-SO-17-3]	B185594	09/06/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185594	09/06/17
17I0112-07 [WS-AOC12E-SO-35-2]	B185594	09/06/17
17I0112-08 [WS-AOC12E-SO-35-3]	B185594	09/06/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185594	09/06/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185594	09/06/17
17I0112-11 [WS-AOC12E-SO-21-3]	B185594	09/06/17
17I0112-12 [WS-AOC12E-SO-25-1]	B185594	09/06/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185594	09/06/17
17I0112-14 [WS-AOC12E-SO-25-3]	B185594	09/06/17
17I0112-15 [WS-AOC15-SO-1-1]	B185594	09/06/17
17I0112-16 [WS-AOC15-SO-1-2]	B185594	09/06/17
17I0112-17 [WS-AOC15-SO-1-3]	B185594	09/06/17
17I0112-18 [WS-AOC12E-SO-42-1]	B185594	09/06/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185594	09/06/17
17I0112-20 [WS-AOC12E-SO-42-3]	B185594	09/06/17
17I0112-21 [WS-AOC12E-SO-Dup47]	B185594	09/06/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-21 [WS-AOC12E-SO-Dup47]	B185830	10.0	10.0	09/08/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-01 [WS-AOC12E-SO-5-1]	B185867	10.0	10.0	09/10/17
17I0112-02 [WS-AOC12E-SO-5-2]	B185867	10.0	10.0	09/10/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185867	10.0	10.0	09/10/17

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-04 [WS-AOC12E-SO-17-2]	B185867	10.0	10.0	09/10/17
17I0112-05 [WS-AOC12E-SO-17-3]	B185867	10.1	10.0	09/10/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185867	10.1	10.0	09/10/17
17I0112-07 [WS-AOC12E-SO-35-2]	B185867	10.1	10.0	09/10/17
17I0112-08 [WS-AOC12E-SO-35-3]	B185867	10.0	10.0	09/10/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185867	10.2	10.0	09/10/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185867	10.2	10.0	09/10/17
17I0112-11 [WS-AOC12E-SO-21-3]	B185867	10.2	10.0	09/10/17
17I0112-12 [WS-AOC12E-SO-25-1]	B185867	10.4	10.0	09/10/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185867	10.0	10.0	09/10/17
17I0112-14 [WS-AOC12E-SO-25-3]	B185867	10.5	10.0	09/10/17
17I0112-15 [WS-AOC15-SO-1-1]	B185867	10.1	10.0	09/10/17
17I0112-16 [WS-AOC15-SO-1-2]	B185867	10.0	10.0	09/10/17
17I0112-17 [WS-AOC15-SO-1-3]	B185867	10.0	10.0	09/10/17
17I0112-18 [WS-AOC12E-SO-42-1]	B185867	10.0	10.0	09/10/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185867	10.1	10.0	09/10/17
17I0112-20 [WS-AOC12E-SO-42-3]	B185867	10.4	10.0	09/10/17

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185890	1000	10.0	09/11/17
17I0112-23 [Equipment Blank - 62]	B185890	1000	10.0	09/11/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-07 [WS-AOC12E-SO-35-2]	B185922	30.0	2.00	09/11/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185922	30.0	1.00	09/11/17

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185977	1000	1.00	09/12/17
17I0112-23 [Equipment Blank - 62]	B185977	1000	1.00	09/12/17

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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
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Batch B185922 - SW-846 3546

Blank (B185922-BLK1)

Prepared: 09/11/17 Analyzed: 09/12/17

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	2.10		mg/Kg wet	3.33		63.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.35		mg/Kg wet	3.33		70.6	30-130			
Surrogate: p-Terphenyl-d14	2.99		mg/Kg wet	3.33		89.8	30-130			

LCS (B185922-BS1)

Prepared: 09/11/17 Analyzed: 09/12/17

Acenaphthene	0.960	0.17	mg/Kg wet	1.67		57.6	40-140			
Acenaphthylene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Anthracene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140			
Benzo(a)anthracene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140			
Benzo(a)pyrene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Benzo(b)fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Benzo(g,h,i)perylene	0.926	0.17	mg/Kg wet	1.67		55.6	40-140			
Benzo(k)fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.9	40-140			
Chrysene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140			
Dibenz(a,h)anthracene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140			
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Indeno(1,2,3-cd)pyrene	1.02	0.17	mg/Kg wet	1.67		60.9	40-140			
2-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140			
Naphthalene	0.987	0.17	mg/Kg wet	1.67		59.2	40-140			
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		63.2	40-140			
Pyrene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140			
Surrogate: Nitrobenzene-d5	2.22		mg/Kg wet	3.33		66.5	30-130			
Surrogate: 2-Fluorobiphenyl	2.46		mg/Kg wet	3.33		73.7	30-130			
Surrogate: p-Terphenyl-d14	2.62		mg/Kg wet	3.33		78.7	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
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Batch B185922 - SW-846 3546

LCS Dup (B185922-BSD1)

Prepared: 09/11/17 Analyzed: 09/12/17

Acenaphthene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	8.16	30	
Acenaphthylene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	8.07	30	
Anthracene	1.12	0.17	mg/Kg wet	1.67		67.5	40-140	6.77	30	
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140	7.16	30	
Benzo(a)pyrene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140	6.34	30	
Benzo(b)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.5	40-140	8.88	30	
Benzo(g,h,i)perylene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	14.5	30	
Benzo(k)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	8.21	30	
Chrysene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140	7.42	30	
Dibenz(a,h)anthracene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	6.94	30	
Fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140	7.20	30	
Fluorene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140	7.58	30	
Indeno(1,2,3-cd)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	7.31	30	
2-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140	11.3	30	
Naphthalene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	10.0	30	
Phenanthrene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140	8.74	30	
Pyrene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140	9.00	30	
Surrogate: Nitrobenzene-d5	2.46		mg/Kg wet	3.33		73.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.69		mg/Kg wet	3.33		80.6	30-130			
Surrogate: p-Terphenyl-d14	2.85		mg/Kg wet	3.33		85.5	30-130			

Batch B185977 - SW-846 3510C

Blank (B185977-BLK1)

Prepared: 09/12/17 Analyzed: 09/13/17

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	87.6		µg/L	100		87.6	30-130			
Surrogate: 2-Fluorobiphenyl	85.2		µg/L	100		85.2	30-130			
Surrogate: p-Terphenyl-d14	82.4		µg/L	100		82.4	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 B185977 - SW-846 3510C										
LCS (B185977-BS1)										
					Prepared: 09/12/17 Analyzed: 09/13/17					
Acenaphthene (SIM)	44.1	7.5	µg/L	50.0		88.2	40-140			
Acenaphthylene (SIM)	43.3	7.5	µg/L	50.0		86.6	40-140			
Anthracene (SIM)	46.5	5.0	µg/L	50.0		93.0	40-140			
Benzo(a)anthracene (SIM)	46.9	1.2	µg/L	50.0		93.8	40-140			
Benzo(a)pyrene (SIM)	48.5	2.5	µg/L	50.0		97.0	40-140			
Benzo(b)fluoranthene (SIM)	48.3	1.2	µg/L	50.0		96.6	40-140			
Benzo(g,h,i)perylene (SIM)	46.6	12	µg/L	50.0		93.3	40-140			
Benzo(k)fluoranthene (SIM)	46.8	5.0	µg/L	50.0		93.5	40-140			
Chrysene (SIM)	46.8	5.0	µg/L	50.0		93.6	40-140			
Dibenz(a,h)anthracene (SIM)	45.5	5.0	µg/L	50.0		91.0	40-140			
Fluoranthene (SIM)	45.6	12	µg/L	50.0		91.2	40-140			
Fluorene (SIM)	44.5	25	µg/L	50.0		89.0	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	46.9	5.0	µg/L	50.0		93.8	40-140			
2-Methylnaphthalene (SIM)	41.6	25	µg/L	50.0		83.2	40-140			
Naphthalene (SIM)	40.2	25	µg/L	50.0		80.4	40-140			
Phenanthrene (SIM)	45.1	1.2	µg/L	50.0		90.2	40-140			
Pyrene (SIM)	46.9	25	µg/L	50.0		93.8	40-140			
Surrogate: Nitrobenzene-d5	92.6		µg/L	100		92.6	30-130			
Surrogate: 2-Fluorobiphenyl	93.5		µg/L	100		93.5	30-130			
Surrogate: p-Terphenyl-d14	74.5		µg/L	100		74.5	30-130			
LCS Dup (B185977-BSD1)										
					Prepared: 09/12/17 Analyzed: 09/13/17					
Acenaphthene (SIM)	48.9	7.5	µg/L	50.0		97.8	40-140	10.2	20	
Acenaphthylene (SIM)	47.9	7.5	µg/L	50.0		95.8	40-140	10.0	20	
Anthracene (SIM)	51.2	5.0	µg/L	50.0		102	40-140	9.72	20	
Benzo(a)anthracene (SIM)	51.8	1.2	µg/L	50.0		104	40-140	10.0	20	
Benzo(a)pyrene (SIM)	53.8	2.5	µg/L	50.0		108	40-140	10.4	20	
Benzo(b)fluoranthene (SIM)	54.4	1.2	µg/L	50.0		109	40-140	12.0	20	
Benzo(g,h,i)perylene (SIM)	51.4	12	µg/L	50.0		103	40-140	9.59	20	
Benzo(k)fluoranthene (SIM)	52.5	5.0	µg/L	50.0		105	40-140	11.6	20	
Chrysene (SIM)	51.9	5.0	µg/L	50.0		104	40-140	10.2	20	
Dibenz(a,h)anthracene (SIM)	50.3	5.0	µg/L	50.0		101	40-140	10.0	20	
Fluoranthene (SIM)	49.9	12	µg/L	50.0		99.8	40-140	9.11	20	
Fluorene (SIM)	48.9	25	µg/L	50.0		97.8	40-140	9.47	20	
Indeno(1,2,3-cd)pyrene (SIM)	51.4	5.0	µg/L	50.0		103	40-140	9.21	20	
2-Methylnaphthalene (SIM)	45.6	25	µg/L	50.0		91.3	40-140	9.28	20	
Naphthalene (SIM)	44.4	25	µg/L	50.0		88.8	40-140	9.93	20	
Phenanthrene (SIM)	50.4	1.2	µg/L	50.0		101	40-140	11.0	20	
Pyrene (SIM)	53.0	25	µg/L	50.0		106	40-140	12.2	20	
Surrogate: Nitrobenzene-d5	98.4		µg/L	100		98.4	30-130			
Surrogate: 2-Fluorobiphenyl	99.8		µg/L	100		99.8	30-130			
Surrogate: p-Terphenyl-d14	86.0		µg/L	100		86.0	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 B185890 - SW-846 3510C										
Blank (B185890-BLK1)										
Prepared: 09/11/17 Analyzed: 09/14/17										
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	1.96		µg/L	2.00		98.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.76		µg/L	2.00		88.2	30-150			
Surrogate: Tetrachloro-m-xylene	2.18		µg/L	2.00		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.68		µg/L	2.00		83.9	30-150			
LCS (B185890-BS1)										
Prepared: 09/11/17 Analyzed: 09/14/17										
Aroclor-1016	0.50	0.20	µg/L	0.500		99.5	40-140			
Aroclor-1016 [2C]	0.52	0.20	µg/L	0.500		103	40-140			
Aroclor-1260	0.47	0.20	µg/L	0.500		93.7	40-140			
Aroclor-1260 [2C]	0.51	0.20	µg/L	0.500		102	40-140			
Surrogate: Decachlorobiphenyl	2.02		µg/L	2.00		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.80		µg/L	2.00		89.8	30-150			
Surrogate: Tetrachloro-m-xylene	2.12		µg/L	2.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.63		µg/L	2.00		81.6	30-150			
LCS Dup (B185890-BSD1)										
Prepared: 09/11/17 Analyzed: 09/14/17										
Aroclor-1016	0.50	0.20	µg/L	0.500		100	40-140	0.547	20	
Aroclor-1016 [2C]	0.51	0.20	µg/L	0.500		103	40-140	0.515	20	
Aroclor-1260	0.46	0.20	µg/L	0.500		91.9	40-140	1.95	20	
Aroclor-1260 [2C]	0.50	0.20	µg/L	0.500		100	40-140	2.01	20	
Surrogate: Decachlorobiphenyl	1.85		µg/L	2.00		92.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.67		µg/L	2.00		83.6	30-150			
Surrogate: Tetrachloro-m-xylene	2.13		µg/L	2.00		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.65		µg/L	2.00		82.3	30-150			

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 B185830 - SW-846 3540C										
Blank (B185830-BLK1)										
Prepared: 09/08/17 Analyzed: 09/10/17										
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	0.191		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.213		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	0.154		mg/Kg wet	0.200		77.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.177		mg/Kg wet	0.200		88.3	30-150			
LCS (B185830-BS1)										
Prepared: 09/08/17 Analyzed: 09/10/17										
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.6	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.6	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		74.9	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.8	40-140			
Surrogate: Decachlorobiphenyl	0.177		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.197		mg/Kg wet	0.200		98.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.142		mg/Kg wet	0.200		71.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.164		mg/Kg wet	0.200		81.8	30-150			
LCS Dup (B185830-BSD1)										
Prepared: 09/08/17 Analyzed: 09/10/17										
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.5	40-140	5.57	30	
Aroclor-1016 [2C]	0.21	0.020	mg/Kg wet	0.200		103	40-140	7.04	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		77.4	40-140	3.31	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		86.6	40-140	6.84	30	
Surrogate: Decachlorobiphenyl	0.179		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.199		mg/Kg wet	0.200		99.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.157		mg/Kg wet	0.200		78.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.182		mg/Kg wet	0.200		91.0	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 B185867 - SW-846 3540C										
Blank (B185867-BLK1)										
Prepared: 09/10/17 Analyzed: 09/16/17										
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]	0.182		mg/Kg wet	0.200		90.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.208		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.155		mg/Kg wet	0.200		77.3	30-150			
LCS (B185867-BS1)										
Prepared: 09/10/17 Analyzed: 09/16/17										
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		87.8	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		80.3	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.3	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.6	40-140			
Surrogate: Decachlorobiphenyl	0.200		mg/Kg wet	0.200		99.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.178		mg/Kg wet	0.200		89.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.148		mg/Kg wet	0.200		74.0	30-150			
LCS Dup (B185867-BSD1)										
Prepared: 09/10/17 Analyzed: 09/16/17										
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		81.8	40-140	7.09	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		76.3	40-140	5.16	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.6	40-140	2.21	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		77.3	40-140	1.68	30	
Surrogate: Decachlorobiphenyl	0.195		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.176		mg/Kg wet	0.200		88.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.151		mg/Kg wet	0.200		75.4	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
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Batch B185867 - SW-846 3540C

Matrix Spike (B185867-MS1)

Source: 17I0112-05

Prepared: 09/10/17 Analyzed: 09/16/17

Aroclor-1016	0.19	0.090	mg/Kg dry	0.225	ND	84.1	40-140			
Aroclor-1016 [2C]	0.18	0.090	mg/Kg dry	0.225	ND	81.5	40-140			
Aroclor-1260	0.14	0.090	mg/Kg dry	0.225	ND	62.6	40-140			
Aroclor-1260 [2C]	0.15	0.090	mg/Kg dry	0.225	ND	65.7	40-140			
Surrogate: Decachlorobiphenyl	0.158		mg/Kg dry	0.225		70.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.172		mg/Kg dry	0.225		76.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.196		mg/Kg dry	0.225		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.203		mg/Kg dry	0.225		90.2	30-150			

Matrix Spike Dup (B185867-MSD1)

Source: 17I0112-05

Prepared: 09/10/17 Analyzed: 09/16/17

Aroclor-1016	0.24	0.091	mg/Kg dry	0.228	ND	106	40-140	23.7	50	
Aroclor-1016 [2C]	0.22	0.091	mg/Kg dry	0.228	ND	96.4	40-140	17.7	50	
Aroclor-1260	0.17	0.091	mg/Kg dry	0.228	ND	76.4	40-140	20.8	50	
Aroclor-1260 [2C]	0.18	0.091	mg/Kg dry	0.228	ND	80.3	40-140	21.0	50	
Surrogate: Decachlorobiphenyl	0.193		mg/Kg dry	0.228		84.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.209		mg/Kg dry	0.228		91.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.224		mg/Kg dry	0.228		98.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.239		mg/Kg dry	0.228		105	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 B185892 - SW-846 3510C										
Blank (B185892-BLK1)										
				Prepared: 09/11/17 Analyzed: 09/12/17						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	0.0784		mg/L	0.100		78.4	50-150			
LCS (B185892-BS1)										
				Prepared: 09/11/17 Analyzed: 09/12/17						
CT ETPH	0.633	0.075	mg/L	1.00		63.3	60-120			
Surrogate: o-Terphenyl	0.0709		mg/L	0.100		70.9	50-150			
LCS Dup (B185892-BSD1)										
				Prepared: 09/11/17 Analyzed: 09/12/17						
CT ETPH	0.663	0.075	mg/L	1.00		66.3	60-120	4.71	30	
Surrogate: o-Terphenyl	0.0745		mg/L	0.100		74.5	50-150			
Batch B185921 - SW-846 3546										
Blank (B185921-BLK1)										
				Prepared: 09/11/17 Analyzed: 09/12/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.52		mg/Kg wet	3.33		75.6	50-150			
LCS (B185921-BS1)										
				Prepared: 09/11/17 Analyzed: 09/12/17						
CT ETPH	20.3	10	mg/Kg wet	33.3		61.0	60-120			
Surrogate: o-Terphenyl	2.40		mg/Kg wet	3.33		72.0	50-150			
LCS Dup (B185921-BSD1)										
				Prepared: 09/11/17 Analyzed: 09/12/17						
CT ETPH	21.6	10	mg/Kg wet	33.3		64.8	60-120	6.10	30	
Surrogate: o-Terphenyl	2.51		mg/Kg wet	3.33		75.4	50-150			
Matrix Spike (B185921-MS1)										
				Source: 17I0112-03			Prepared: 09/11/17 Analyzed: 09/12/17			
CT ETPH	242	56	mg/Kg dry	37.3	261	-50.1 *	50-150			MS-07A
Surrogate: o-Terphenyl	2.44		mg/Kg dry	3.73		65.3	50-150			
Matrix Spike Dup (B185921-MSD1)										
				Source: 17I0112-03			Prepared: 09/11/17 Analyzed: 09/12/17			
CT ETPH	259	56	mg/Kg dry	37.3	261	-5.38 *	50-150	6.66	30	MS-07A
Surrogate: o-Terphenyl	2.47		mg/Kg dry	3.73		66.2	50-150			

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

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 B185594 - % Solids										
Duplicate (B185594-DUP5)	Source: 17I0112-01			Prepared: 09/06/17 Analyzed: 09/07/17						
% Solids	78.8		% Wt			81.9		3.86	20	
Duplicate (B185594-DUP6)	Source: 17I0112-02			Prepared: 09/06/17 Analyzed: 09/07/17						
% Solids	81.2		% Wt			83.0		2.19	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.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
RL-12	Elevated reporting limit due to matrix interference.

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 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
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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
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 Public 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



Requested Turnaround Time
 7-Day 10-Day 5-day
 Other: _____

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

Data Delivery
 Format: PDF EXCEL
 Other: _____

Enhanced Data Package Required:
 Email To: beeler@wseinc.com
 Fax To #: _____

Company Name: Weston & Sampson Engineers
Address: 273 Dividend Rd Rocky 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

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-AOC12E-SO-21-3	9/5/17	1402		X	S	U
12	WS-AOC12E-SO-25-1		1414				
13	WS-AOC12E-SO-25-2		1415				
14	WS-AOC12E-SO-25-3		1416				
15	WS-AOC15-SO-1-1		1427				
16	WS-AOC15-SO-1-2		1428				
17	WS-AOC15-SO-1-3		1429				
18	WS-AOC12E-SO-42-1		1459				
19	WS-AOC12E-SO-42-2		1500				
20	WS-AOC12E-SO-42-3		1501				

Comments: _____

Please hold excess volumes for possible SPLP analyses.

Relinquished by: (signature)	Date/Time	Detection Limit Requirements
<i>[Signature]</i>	9/5/17	MA
Received by: (signature)	9/15/17 7:58	
Relinquished by: (signature)	9/17/17 4:40	GT
Received by: (signature)	9/17/17 16:90	Other: _____
Relinquished by: (signature)		
Received by: (signature)		

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

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.

of Containers _____
 2 Preservation Code _____
 3 Container Code _____

Dissolved Metals Samples
 Field Filtered
 Lab to Filter

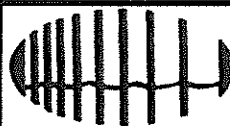
Orthophosphate Samples
 Field Filtered
 Lab to Filter

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) _____

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 9/5/17 Time 1640
 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, 3.7
 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.	<u>6</u>	1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz <u>Amb/Clear</u>
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\A091217.SEC\A0912007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/12/17
 Data File Name A0912007.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	579219	601921	-4
c - 10	1.62	584624	601921	-3
c - 12	2.35	601930	601921	0
c - 14	3.01	613611	601921	2
c - 16	3.61	626238	601921	4
c - 18	4.23	617049	601921	3
o-Terphenyl	4.51	684250	601921	
c - 20	4.83	622766	601921	3
c - 22	5.34	629203	601921	5
c - 24	5.77	583868	601921	-3
c - 26	6.16	611957	601921	2
c - 28	6.52	601941	601921	0
c - 30	6.85	596395	601921	-1
c - 32	7.16	582912	601921	-3
c - 34	7.46	587710	601921	-2
c - 36	7.77	589388	601921	-2

* One compound allowed %D </= 50%

Samples
 17H1675-17

D:\HPCHEM\1\DATA\A091217.SEC\A0912039.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/12/17
 Data File Name A0912039.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	603049	629027	-4
c - 10	1.62	609325	629027	-3
c - 12	2.35	625871	629027	-1
c - 14	3.01	638455	629027	1
c - 16	3.61	652226	629027	4
c - 18	4.23	642382	629027	2
o-Terphenyl	4.51	713285	629027	
c - 20	4.83	648093	629027	3
c - 22	5.34	655317	629027	4
c - 24	5.77	608772	629027	-3
c - 26	6.16	639161	629027	2
c - 28	6.52	629708	629027	0
c - 30	6.85	627878	629027	0
c - 32	7.16	615300	629027	-2
c - 34	7.45	619133	629027	-2
c - 36	7.77	620740	629027	-1

* One compound allowed %D <= 50%

Samples
 17I0112-22
 17I0112-23
 17I0137-01
 17H1672-11

D:\HPCHEM\1\DATA\A091217\A0912006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/12/17
 Data File Name A0912006.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	501479	538055	-7
c - 10	1.64	508127	538055	-6
c - 12	2.37	526410	538055	-2
c - 14	3.05	540261	538055	0
c - 16	3.65	553396	538055	3
c - 18	4.29	547821	538055	2
o-Terphenyl	4.57	606869	538055	
c - 20	4.89	555426	538055	3
c - 22	5.39	565503	538055	5
c - 24	5.83	528778	538055	-2
c - 26	6.23	558205	538055	4
c - 28	6.59	551574	538055	3
c - 30	6.92	544804	538055	1
c - 32	7.24	528926	538055	-2
c - 34	7.53	529626	538055	-2
c - 36	7.88	530490	538055	-1

* One compound allowed %D <= 50%

Samples

17H1672-02
 17H1672-03
 17H1672-04
 17H1672-08
 17H1672-12
 17H1672-14
 17H1672-16
 17I0112-13
 17H1672-05

D:\HPCHEM\1\DATA\A091217\A0912038.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/12/17
 Data File Name A0912038.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	500546	539610	-7
c - 10	1.64	508067	539610	-6
c - 12	2.37	526540	539610	-2
c - 14	3.04	540306	539610	0
c - 16	3.65	554002	539610	3
c - 18	4.29	549170	539610	2
o-Terphenyl	4.57	609352	539610	
c - 20	4.89	557450	539610	3
c - 22	5.39	567557	539610	5
c - 24	5.83	530516	539610	-2
c - 26	6.23	560292	539610	4
c - 28	6.59	553131	539610	3
c - 30	6.92	548526	539610	2
c - 32	7.23	532844	539610	-1
c - 34	7.53	532454	539610	-1
c - 36	7.87	532753	539610	-1

* One compound allowed %D <= 50%

Samples

17I0112-06
 17I0112-03
 17I0112-10
 17I0112-15
 17I0112-19
 17I0297-01
 17H1672-01
 17H1672-09
 17I0112-01



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: 17I0112

Laboratory Sample ID(s):

Sample Date(s):

17I0112-01 thru 17I0112-23

09/05/2017

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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: 09/18/17

Name of Laboratory: Con-Test Analytical Laboratory

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

September 18, 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: 17I0112

Enclosed are results of analyses for samples received by the laboratory on September 5, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

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: 9/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710112

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-AOC12E-SO-5-1	1710112-01	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-5-2	1710112-02	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-17-1	1710112-03	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-17-2	1710112-04	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-17-3	1710112-05	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-35-1	1710112-06	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-35-2	1710112-07	Soil		SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC12E-SO-35-3	1710112-08	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-21-1	1710112-09	Soil		SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC12E-SO-21-2	1710112-10	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-21-3	1710112-11	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-25-1	1710112-12	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-25-2	1710112-13	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-25-3	1710112-14	Soil		SM 2540G SW-846 8082A	
WS-AOC15-SO-1-1	1710112-15	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC15-SO-1-2	1710112-16	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: 9/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710112

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-SO-1-3	1710112-17	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-42-1	1710112-18	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-42-2	1710112-19	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC12E-SO-42-3	1710112-20	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-Dup47	1710112-21	Soil		SM 2540G SW-846 8082A	
Equipment Blank - 61	1710112-22	Equipment Blank Water		CTDEP ETPH SW-846 8082A SW-846 8270D	
Equipment Blank - 62	1710112-23	Equipment Blank Water		CTDEP ETPH SW-846 8082A SW-846 8270D	

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:****MS-07A**

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.

Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**CT ETPH**

1710112-03[WS-AOC12E-SO-17-1], B185921-MS1, B185921-MSD1

SW-846 8270D**Qualifications:****RL-12**

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

1710112-07[WS-AOC12E-SO-35-2]

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

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1

Sampled: 9/5/2017 13:30

Sample ID: 1710112-01

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	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		95.4	30-150					9/16/17 14:07	
Decachlorobiphenyl [2]		110	30-150					9/16/17 14:07	
Tetrachloro-m-xylene [1]		95.8	30-150					9/16/17 14:07	
Tetrachloro-m-xylene [2]		91.5	30-150					9/16/17 14:07	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1

Sampled: 9/5/2017 13:30

Sample ID: 1710112-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	110	12	mg/Kg dry	1		CTDEP ETPH	9/11/17	9/12/17 23:59	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		86.3	50-150					9/12/17 23:59	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1

Sampled: 9/5/2017 13:30

Sample ID: 1710112-01

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	81.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-2

Sampled: 9/5/2017 13:31

Sample ID: 1710112-02

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	9/10/17	9/16/17 14:24	JMB
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		93.2	30-150					9/16/17 14:24	
Decachlorobiphenyl [2]		103	30-150					9/16/17 14:24	
Tetrachloro-m-xylene [1]		95.4	30-150					9/16/17 14:24	
Tetrachloro-m-xylene [2]		96.1	30-150					9/16/17 14:24	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-2

Sampled: 9/5/2017 13:31

Sample ID: 1710112-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.0		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1

Sampled: 9/5/2017 13:40

Sample ID: 1710112-03

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	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		91.2	30-150					9/16/17 14:42	
Decachlorobiphenyl [2]		100	30-150					9/16/17 14:42	
Tetrachloro-m-xylene [1]		94.2	30-150					9/16/17 14:42	
Tetrachloro-m-xylene [2]		95.9	30-150					9/16/17 14:42	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1

Sampled: 9/5/2017 13:40

Sample ID: 1710112-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	260	56	mg/Kg dry	5	MS-07A	CTDEP ETPH	9/11/17	9/12/17 21:20	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		69.1	50-150					9/12/17 21:20	

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

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1

Sampled: 9/5/2017 13:40

Sample ID: 1710112-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	9/6/17	9/7/17 8:08	MRL

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

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-2

Sampled: 9/5/2017 13:41

Sample ID: 1710112-04

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	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		91.2	30-150					9/16/17 14:59	
Decachlorobiphenyl [2]		105	30-150					9/16/17 14:59	
Tetrachloro-m-xylene [1]		91.1	30-150					9/16/17 14:59	
Tetrachloro-m-xylene [2]		95.1	30-150					9/16/17 14:59	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-2

Sampled: 9/5/2017 13:41

Sample ID: 1710112-04

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	85.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-3

Sampled: 9/5/2017 13:42

Sample ID: 1710112-05

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	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		100	30-150					9/16/17 15:17	
Decachlorobiphenyl [2]		112	30-150					9/16/17 15:17	
Tetrachloro-m-xylene [1]		100	30-150					9/16/17 15:17	
Tetrachloro-m-xylene [2]		106	30-150					9/16/17 15:17	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-3

Sampled: 9/5/2017 13:42

Sample ID: 1710112-05

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	87.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1

Sampled: 9/5/2017 14:03

Sample ID: 1710112-06

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	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		77.6	30-150					9/16/17 15:34	
Decachlorobiphenyl [2]		88.3	30-150					9/16/17 15:34	
Tetrachloro-m-xylene [1]		84.8	30-150					9/16/17 15:34	
Tetrachloro-m-xylene [2]		84.3	30-150					9/16/17 15:34	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1

Sampled: 9/5/2017 14:03

Sample ID: 1710112-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1100	240	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 21:02	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		62.2	50-150					9/12/17 21:02	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1

Sampled: 9/5/2017 14:03

Sample ID: 1710112-06

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	84.2		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2

Sampled: 9/5/2017 14:04

Sample ID: 1710112-07

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	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Acenaphthylene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Anthracene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(a)anthracene	0.39	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(a)pyrene	0.40	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(b)fluoranthene	0.49	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(g,h,i)perylene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(k)fluoranthene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Chrysene	0.40	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Dibenz(a,h)anthracene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Fluoranthene	0.68	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Fluorene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Indeno(1,2,3-cd)pyrene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
2-Methylnaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Naphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Phenanthrene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Pyrene	0.67	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		35.1	30-130					9/12/17 17:56	
2-Fluorobiphenyl		37.6	30-130					9/12/17 17:56	
p-Terphenyl-d14		42.2	30-130					9/12/17 17:56	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2

Sampled: 9/5/2017 14:04

Sample ID: 1710112-07

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	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	76.8		30-150				9/16/17 15:52		
Decachlorobiphenyl [2]	86.7		30-150				9/16/17 15:52		
Tetrachloro-m-xylene [1]	88.2		30-150				9/16/17 15:52		
Tetrachloro-m-xylene [2]	92.2		30-150				9/16/17 15:52		

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2

Sampled: 9/5/2017 14:04

Sample ID: 1710112-07

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	90.4		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-3

Sampled: 9/5/2017 14:05

Sample ID: 1710112-08

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	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		78.4	30-150					9/16/17 16:09	
Decachlorobiphenyl [2]		86.1	30-150					9/16/17 16:09	
Tetrachloro-m-xylene [1]		89.1	30-150					9/16/17 16:09	
Tetrachloro-m-xylene [2]		100	30-150					9/16/17 16:09	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-3

Sampled: 9/5/2017 14:05

Sample ID: 1710112-08

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	83.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1

Sampled: 9/5/2017 14:00

Sample ID: 1710112-09

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	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(a)anthracene	0.32	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(a)pyrene	0.27	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(b)fluoranthene	0.41	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Chrysene	0.45	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Fluoranthene	0.68	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Phenanthrene	0.47	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Pyrene	0.56	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		44.9	30-130					9/12/17 18:24	
2-Fluorobiphenyl		53.0	30-130					9/12/17 18:24	
p-Terphenyl-d14		60.1	30-130					9/12/17 18:24	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1

Sampled: 9/5/2017 14:00

Sample ID: 1710112-09

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	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		78.2	30-150					9/16/17 16:27	
Decachlorobiphenyl [2]		84.8	30-150					9/16/17 16:27	
Tetrachloro-m-xylene [1]		86.6	30-150					9/16/17 16:27	
Tetrachloro-m-xylene [2]		91.5	30-150					9/16/17 16:27	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1

Sampled: 9/5/2017 14:00

Sample ID: 1710112-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2

Sampled: 9/5/2017 14:01

Sample ID: 1710112-10

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	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		90.5	30-150					9/16/17 17:32	
Decachlorobiphenyl [2]		99.8	30-150					9/16/17 17:32	
Tetrachloro-m-xylene [1]		94.4	30-150					9/16/17 17:32	
Tetrachloro-m-xylene [2]		100	30-150					9/16/17 17:32	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2

Sampled: 9/5/2017 14:01

Sample ID: 1710112-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	200	62	mg/Kg dry	5		CTDEP ETPH	9/11/17	9/12/17 22:13	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		92.9	50-150					9/12/17 22:13	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2

Sampled: 9/5/2017 14:01

Sample ID: 1710112-10

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	80.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-3

Sampled: 9/5/2017 14:02

Sample ID: 1710112-11

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	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.2	30-150					9/16/17 17:49	
Decachlorobiphenyl [2]		92.2	30-150					9/16/17 17:49	
Tetrachloro-m-xylene [1]		89.8	30-150					9/16/17 17:49	
Tetrachloro-m-xylene [2]		92.4	30-150					9/16/17 17:49	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-3

Sampled: 9/5/2017 14:02

Sample ID: 1710112-11

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	83.2		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-1

Sampled: 9/5/2017 14:14

Sample ID: 1710112-12

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	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		95.6	30-150					9/16/17 18:07	
Decachlorobiphenyl [2]		102	30-150					9/16/17 18:07	
Tetrachloro-m-xylene [1]		110	30-150					9/16/17 18:07	
Tetrachloro-m-xylene [2]		118	30-150					9/16/17 18:07	

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

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-1

Sampled: 9/5/2017 14:14

Sample ID: 1710112-12

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	93.6		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2

Sampled: 9/5/2017 14:15

Sample ID: 1710112-13

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	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		88.4	30-150					9/16/17 18:24	
Decachlorobiphenyl [2]		94.8	30-150					9/16/17 18:24	
Tetrachloro-m-xylene [1]		96.3	30-150					9/16/17 18:24	
Tetrachloro-m-xylene [2]		107	30-150					9/16/17 18:24	

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

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2

Sampled: 9/5/2017 14:15

Sample ID: 1710112-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	23	12	mg/Kg dry	1		CTDEP ETPH	9/11/17	9/12/17 18:57	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		82.0	50-150					9/12/17 18:57	

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

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2

Sampled: 9/5/2017 14:15

Sample ID: 1710112-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-3

Sampled: 9/5/2017 14:16

Sample ID: 1710112-14

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	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		85.4	30-150					9/16/17 18:42	
Decachlorobiphenyl [2]		94.3	30-150					9/16/17 18:42	
Tetrachloro-m-xylene [1]		87.7	30-150					9/16/17 18:42	
Tetrachloro-m-xylene [2]		93.1	30-150					9/16/17 18:42	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-3

Sampled: 9/5/2017 14:16

Sample ID: 1710112-14

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	72.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1

Sampled: 9/5/2017 14:27

Sample ID: 1710112-15

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	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		88.4	30-150					9/16/17 18:59	
Decachlorobiphenyl [2]		98.6	30-150					9/16/17 18:59	
Tetrachloro-m-xylene [1]		95.9	30-150					9/16/17 18:59	
Tetrachloro-m-xylene [2]		102	30-150					9/16/17 18:59	

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

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1

Sampled: 9/5/2017 14:27

Sample ID: 1710112-15

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	220	120	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 22:31	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		51.4	50-150					9/12/17 22:31	

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

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1

Sampled: 9/5/2017 14:27

Sample ID: 1710112-15

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	83.7		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-2

Sampled: 9/5/2017 14:28

Sample ID: 1710112-16

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	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.9	30-150					9/16/17 19:16	
Decachlorobiphenyl [2]		102	30-150					9/16/17 19:16	
Tetrachloro-m-xylene [1]		94.2	30-150					9/16/17 19:16	
Tetrachloro-m-xylene [2]		89.6	30-150					9/16/17 19:16	

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

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-2

Sampled: 9/5/2017 14:28

Sample ID: 1710112-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-3

Sampled: 9/5/2017 14:29

Sample ID: 1710112-17

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	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		74.4	30-150					9/16/17 19:34	
Decachlorobiphenyl [2]		80.4	30-150					9/16/17 19:34	
Tetrachloro-m-xylene [1]		80.3	30-150					9/16/17 19:34	
Tetrachloro-m-xylene [2]		85.3	30-150					9/16/17 19:34	

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

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-3

Sampled: 9/5/2017 14:29

Sample ID: 1710112-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	9/6/17	9/7/17 8:08	MRL

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

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-1

Sampled: 9/5/2017 14:59

Sample ID: 1710112-18

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	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		82.7	30-150					9/16/17 19:51	
Decachlorobiphenyl [2]		89.4	30-150					9/16/17 19:51	
Tetrachloro-m-xylene [1]		92.2	30-150					9/16/17 19:51	
Tetrachloro-m-xylene [2]		93.5	30-150					9/16/17 19:51	

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

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-1

Sampled: 9/5/2017 14:59

Sample ID: 1710112-18

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	93.6		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2

Sampled: 9/5/2017 15:00

Sample ID: 1710112-19

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	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		62.7	30-150					9/16/17 20:09	
Decachlorobiphenyl [2]		67.8	30-150					9/16/17 20:09	
Tetrachloro-m-xylene [1]		81.2	30-150					9/16/17 20:09	
Tetrachloro-m-xylene [2]		96.9	30-150					9/16/17 20:09	

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

Sample Description:

Work Order: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2

Sampled: 9/5/2017 15:00

Sample ID: 1710112-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	120	110	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 22:48	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		88.4	50-150					9/12/17 22:48	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2

Sampled: 9/5/2017 15:00

Sample ID: 1710112-19

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	93.0		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-3

Sampled: 9/5/2017 15:01

Sample ID: 1710112-20

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	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		58.9	30-150					9/16/17 20:26	
Decachlorobiphenyl [2]		64.4	30-150					9/16/17 20:26	
Tetrachloro-m-xylene [1]		70.4	30-150					9/16/17 20:26	
Tetrachloro-m-xylene [2]		65.6	30-150					9/16/17 20:26	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-3

Sampled: 9/5/2017 15:01

Sample ID: 1710112-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-Dup47

Sampled: 9/5/2017 00:00

Sample ID: 1710112-21

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	9/8/17	9/11/17 18:49	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		73.6	30-150					9/11/17 18:49	
Decachlorobiphenyl [2]		89.8	30-150					9/11/17 18:49	
Tetrachloro-m-xylene [1]		83.6	30-150					9/11/17 18:49	
Tetrachloro-m-xylene [2]		77.2	30-150					9/11/17 18:49	

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: 1710112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-Dup47

Sampled: 9/5/2017 00:00

Sample ID: 1710112-21

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	76.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61

Sampled: 9/5/2017 12:00

Sample ID: 1710112-22

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	9/12/17	9/14/17 17:06	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		85.5	30-130					9/14/17 17:06	
2-Fluorobiphenyl		80.0	30-130					9/14/17 17:06	
p-Terphenyl-d14		80.2	30-130					9/14/17 17:06	

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: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61

Sampled: 9/5/2017 12:00

Sample ID: 1710112-22

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	9/11/17	9/14/17 17:16	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		74.3	30-150					9/14/17 17:16	
Decachlorobiphenyl [2]		74.0	30-150					9/14/17 17:16	
Tetrachloro-m-xylene [1]		95.5	30-150					9/14/17 17:16	
Tetrachloro-m-xylene [2]		79.0	30-150					9/14/17 17:16	

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: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61

Sampled: 9/5/2017 12:00

Sample ID: 1710112-22

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	9/11/17	9/12/17 21:02	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		73.7	50-150					9/12/17 21:02	

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: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62

Sampled: 9/5/2017 12:20

Sample ID: 1710112-23

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	9/12/17	9/14/17 17:35	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		86.7	30-130					9/14/17 17:35	
2-Fluorobiphenyl		83.4	30-130					9/14/17 17:35	
p-Terphenyl-d14		81.6	30-130					9/14/17 17:35	

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: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62

Sampled: 9/5/2017 12:20

Sample ID: 1710112-23

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	9/11/17	9/14/17 17:28	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.5	30-150					9/14/17 17:28	
Decachlorobiphenyl [2]		79.1	30-150					9/14/17 17:28	
Tetrachloro-m-xylene [1]		104	30-150					9/14/17 17:28	
Tetrachloro-m-xylene [2]		79.6	30-150					9/14/17 17:28	

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: 1710112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62

Sampled: 9/5/2017 12:20

Sample ID: 1710112-23

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	9/11/17	9/12/17 21:20	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		81.8	50-150					9/12/17 21:20	

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-01 [WS-AOC12E-SO-5-1]	B185921	30.0	1.00	09/11/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185921	30.0	1.00	09/11/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185921	30.0	2.00	09/11/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185921	30.0	1.00	09/11/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185921	30.0	1.00	09/11/17
17I0112-15 [WS-AOC15-SO-1-1]	B185921	30.0	1.00	09/11/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185921	30.0	1.00	09/11/17

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185892	1000	1.00	09/11/17
17I0112-23 [Equipment Blank - 62]	B185892	1000	1.00	09/11/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0112-01 [WS-AOC12E-SO-5-1]	B185594	09/06/17
17I0112-02 [WS-AOC12E-SO-5-2]	B185594	09/06/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185594	09/06/17
17I0112-04 [WS-AOC12E-SO-17-2]	B185594	09/06/17
17I0112-05 [WS-AOC12E-SO-17-3]	B185594	09/06/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185594	09/06/17
17I0112-07 [WS-AOC12E-SO-35-2]	B185594	09/06/17
17I0112-08 [WS-AOC12E-SO-35-3]	B185594	09/06/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185594	09/06/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185594	09/06/17
17I0112-11 [WS-AOC12E-SO-21-3]	B185594	09/06/17
17I0112-12 [WS-AOC12E-SO-25-1]	B185594	09/06/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185594	09/06/17
17I0112-14 [WS-AOC12E-SO-25-3]	B185594	09/06/17
17I0112-15 [WS-AOC15-SO-1-1]	B185594	09/06/17
17I0112-16 [WS-AOC15-SO-1-2]	B185594	09/06/17
17I0112-17 [WS-AOC15-SO-1-3]	B185594	09/06/17
17I0112-18 [WS-AOC12E-SO-42-1]	B185594	09/06/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185594	09/06/17
17I0112-20 [WS-AOC12E-SO-42-3]	B185594	09/06/17
17I0112-21 [WS-AOC12E-SO-Dup47]	B185594	09/06/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-21 [WS-AOC12E-SO-Dup47]	B185830	10.0	10.0	09/08/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-01 [WS-AOC12E-SO-5-1]	B185867	10.0	10.0	09/10/17
17I0112-02 [WS-AOC12E-SO-5-2]	B185867	10.0	10.0	09/10/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185867	10.0	10.0	09/10/17

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-04 [WS-AOC12E-SO-17-2]	B185867	10.0	10.0	09/10/17
17I0112-05 [WS-AOC12E-SO-17-3]	B185867	10.1	10.0	09/10/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185867	10.1	10.0	09/10/17
17I0112-07 [WS-AOC12E-SO-35-2]	B185867	10.1	10.0	09/10/17
17I0112-08 [WS-AOC12E-SO-35-3]	B185867	10.0	10.0	09/10/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185867	10.2	10.0	09/10/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185867	10.2	10.0	09/10/17
17I0112-11 [WS-AOC12E-SO-21-3]	B185867	10.2	10.0	09/10/17
17I0112-12 [WS-AOC12E-SO-25-1]	B185867	10.4	10.0	09/10/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185867	10.0	10.0	09/10/17
17I0112-14 [WS-AOC12E-SO-25-3]	B185867	10.5	10.0	09/10/17
17I0112-15 [WS-AOC15-SO-1-1]	B185867	10.1	10.0	09/10/17
17I0112-16 [WS-AOC15-SO-1-2]	B185867	10.0	10.0	09/10/17
17I0112-17 [WS-AOC15-SO-1-3]	B185867	10.0	10.0	09/10/17
17I0112-18 [WS-AOC12E-SO-42-1]	B185867	10.0	10.0	09/10/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185867	10.1	10.0	09/10/17
17I0112-20 [WS-AOC12E-SO-42-3]	B185867	10.4	10.0	09/10/17

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185890	1000	10.0	09/11/17
17I0112-23 [Equipment Blank - 62]	B185890	1000	10.0	09/11/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-07 [WS-AOC12E-SO-35-2]	B185922	30.0	2.00	09/11/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185922	30.0	1.00	09/11/17

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185977	1000	1.00	09/12/17
17I0112-23 [Equipment Blank - 62]	B185977	1000	1.00	09/12/17

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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
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Batch B185922 - SW-846 3546

Blank (B185922-BLK1)

Prepared: 09/11/17 Analyzed: 09/12/17

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	2.10		mg/Kg wet	3.33		63.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.35		mg/Kg wet	3.33		70.6	30-130			
Surrogate: p-Terphenyl-d14	2.99		mg/Kg wet	3.33		89.8	30-130			

LCS (B185922-BS1)

Prepared: 09/11/17 Analyzed: 09/12/17

Acenaphthene	0.960	0.17	mg/Kg wet	1.67		57.6	40-140			
Acenaphthylene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Anthracene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140			
Benzo(a)anthracene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140			
Benzo(a)pyrene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Benzo(b)fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Benzo(g,h,i)perylene	0.926	0.17	mg/Kg wet	1.67		55.6	40-140			
Benzo(k)fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.9	40-140			
Chrysene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140			
Dibenz(a,h)anthracene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140			
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Indeno(1,2,3-cd)pyrene	1.02	0.17	mg/Kg wet	1.67		60.9	40-140			
2-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140			
Naphthalene	0.987	0.17	mg/Kg wet	1.67		59.2	40-140			
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		63.2	40-140			
Pyrene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140			
Surrogate: Nitrobenzene-d5	2.22		mg/Kg wet	3.33		66.5	30-130			
Surrogate: 2-Fluorobiphenyl	2.46		mg/Kg wet	3.33		73.7	30-130			
Surrogate: p-Terphenyl-d14	2.62		mg/Kg wet	3.33		78.7	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
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Batch B185922 - SW-846 3546

LCS Dup (B185922-BSD1)

Prepared: 09/11/17 Analyzed: 09/12/17

Acenaphthene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	8.16	30	
Acenaphthylene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	8.07	30	
Anthracene	1.12	0.17	mg/Kg wet	1.67		67.5	40-140	6.77	30	
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140	7.16	30	
Benzo(a)pyrene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140	6.34	30	
Benzo(b)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.5	40-140	8.88	30	
Benzo(g,h,i)perylene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	14.5	30	
Benzo(k)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	8.21	30	
Chrysene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140	7.42	30	
Dibenz(a,h)anthracene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	6.94	30	
Fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140	7.20	30	
Fluorene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140	7.58	30	
Indeno(1,2,3-cd)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	7.31	30	
2-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140	11.3	30	
Naphthalene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	10.0	30	
Phenanthrene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140	8.74	30	
Pyrene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140	9.00	30	
Surrogate: Nitrobenzene-d5	2.46		mg/Kg wet	3.33		73.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.69		mg/Kg wet	3.33		80.6	30-130			
Surrogate: p-Terphenyl-d14	2.85		mg/Kg wet	3.33		85.5	30-130			

Batch B185977 - SW-846 3510C

Blank (B185977-BLK1)

Prepared: 09/12/17 Analyzed: 09/13/17

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	87.6		µg/L	100		87.6	30-130			
Surrogate: 2-Fluorobiphenyl	85.2		µg/L	100		85.2	30-130			
Surrogate: p-Terphenyl-d14	82.4		µg/L	100		82.4	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 B185977 - SW-846 3510C										
LCS (B185977-BS1)										
					Prepared: 09/12/17 Analyzed: 09/13/17					
Acenaphthene (SIM)	44.1	7.5	µg/L	50.0		88.2	40-140			
Acenaphthylene (SIM)	43.3	7.5	µg/L	50.0		86.6	40-140			
Anthracene (SIM)	46.5	5.0	µg/L	50.0		93.0	40-140			
Benzo(a)anthracene (SIM)	46.9	1.2	µg/L	50.0		93.8	40-140			
Benzo(a)pyrene (SIM)	48.5	2.5	µg/L	50.0		97.0	40-140			
Benzo(b)fluoranthene (SIM)	48.3	1.2	µg/L	50.0		96.6	40-140			
Benzo(g,h,i)perylene (SIM)	46.6	12	µg/L	50.0		93.3	40-140			
Benzo(k)fluoranthene (SIM)	46.8	5.0	µg/L	50.0		93.5	40-140			
Chrysene (SIM)	46.8	5.0	µg/L	50.0		93.6	40-140			
Dibenz(a,h)anthracene (SIM)	45.5	5.0	µg/L	50.0		91.0	40-140			
Fluoranthene (SIM)	45.6	12	µg/L	50.0		91.2	40-140			
Fluorene (SIM)	44.5	25	µg/L	50.0		89.0	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	46.9	5.0	µg/L	50.0		93.8	40-140			
2-Methylnaphthalene (SIM)	41.6	25	µg/L	50.0		83.2	40-140			
Naphthalene (SIM)	40.2	25	µg/L	50.0		80.4	40-140			
Phenanthrene (SIM)	45.1	1.2	µg/L	50.0		90.2	40-140			
Pyrene (SIM)	46.9	25	µg/L	50.0		93.8	40-140			
Surrogate: Nitrobenzene-d5	92.6		µg/L	100		92.6	30-130			
Surrogate: 2-Fluorobiphenyl	93.5		µg/L	100		93.5	30-130			
Surrogate: p-Terphenyl-d14	74.5		µg/L	100		74.5	30-130			
LCS Dup (B185977-BSD1)										
					Prepared: 09/12/17 Analyzed: 09/13/17					
Acenaphthene (SIM)	48.9	7.5	µg/L	50.0		97.8	40-140	10.2	20	
Acenaphthylene (SIM)	47.9	7.5	µg/L	50.0		95.8	40-140	10.0	20	
Anthracene (SIM)	51.2	5.0	µg/L	50.0		102	40-140	9.72	20	
Benzo(a)anthracene (SIM)	51.8	1.2	µg/L	50.0		104	40-140	10.0	20	
Benzo(a)pyrene (SIM)	53.8	2.5	µg/L	50.0		108	40-140	10.4	20	
Benzo(b)fluoranthene (SIM)	54.4	1.2	µg/L	50.0		109	40-140	12.0	20	
Benzo(g,h,i)perylene (SIM)	51.4	12	µg/L	50.0		103	40-140	9.59	20	
Benzo(k)fluoranthene (SIM)	52.5	5.0	µg/L	50.0		105	40-140	11.6	20	
Chrysene (SIM)	51.9	5.0	µg/L	50.0		104	40-140	10.2	20	
Dibenz(a,h)anthracene (SIM)	50.3	5.0	µg/L	50.0		101	40-140	10.0	20	
Fluoranthene (SIM)	49.9	12	µg/L	50.0		99.8	40-140	9.11	20	
Fluorene (SIM)	48.9	25	µg/L	50.0		97.8	40-140	9.47	20	
Indeno(1,2,3-cd)pyrene (SIM)	51.4	5.0	µg/L	50.0		103	40-140	9.21	20	
2-Methylnaphthalene (SIM)	45.6	25	µg/L	50.0		91.3	40-140	9.28	20	
Naphthalene (SIM)	44.4	25	µg/L	50.0		88.8	40-140	9.93	20	
Phenanthrene (SIM)	50.4	1.2	µg/L	50.0		101	40-140	11.0	20	
Pyrene (SIM)	53.0	25	µg/L	50.0		106	40-140	12.2	20	
Surrogate: Nitrobenzene-d5	98.4		µg/L	100		98.4	30-130			
Surrogate: 2-Fluorobiphenyl	99.8		µg/L	100		99.8	30-130			
Surrogate: p-Terphenyl-d14	86.0		µg/L	100		86.0	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 B185890 - SW-846 3510C										
Blank (B185890-BLK1)										
Prepared: 09/11/17 Analyzed: 09/14/17										
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	1.96		µg/L	2.00		98.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.76		µg/L	2.00		88.2	30-150			
Surrogate: Tetrachloro-m-xylene	2.18		µg/L	2.00		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.68		µg/L	2.00		83.9	30-150			
LCS (B185890-BS1)										
Prepared: 09/11/17 Analyzed: 09/14/17										
Aroclor-1016	0.50	0.20	µg/L	0.500		99.5	40-140			
Aroclor-1016 [2C]	0.52	0.20	µg/L	0.500		103	40-140			
Aroclor-1260	0.47	0.20	µg/L	0.500		93.7	40-140			
Aroclor-1260 [2C]	0.51	0.20	µg/L	0.500		102	40-140			
Surrogate: Decachlorobiphenyl	2.02		µg/L	2.00		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.80		µg/L	2.00		89.8	30-150			
Surrogate: Tetrachloro-m-xylene	2.12		µg/L	2.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.63		µg/L	2.00		81.6	30-150			
LCS Dup (B185890-BSD1)										
Prepared: 09/11/17 Analyzed: 09/14/17										
Aroclor-1016	0.50	0.20	µg/L	0.500		100	40-140	0.547	20	
Aroclor-1016 [2C]	0.51	0.20	µg/L	0.500		103	40-140	0.515	20	
Aroclor-1260	0.46	0.20	µg/L	0.500		91.9	40-140	1.95	20	
Aroclor-1260 [2C]	0.50	0.20	µg/L	0.500		100	40-140	2.01	20	
Surrogate: Decachlorobiphenyl	1.85		µg/L	2.00		92.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.67		µg/L	2.00		83.6	30-150			
Surrogate: Tetrachloro-m-xylene	2.13		µg/L	2.00		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.65		µg/L	2.00		82.3	30-150			

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 B185830 - SW-846 3540C										
Blank (B185830-BLK1)										
Prepared: 09/08/17 Analyzed: 09/10/17										
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	0.191		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.213		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	0.154		mg/Kg wet	0.200		77.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.177		mg/Kg wet	0.200		88.3	30-150			
LCS (B185830-BS1)										
Prepared: 09/08/17 Analyzed: 09/10/17										
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.6	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.6	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		74.9	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.8	40-140			
Surrogate: Decachlorobiphenyl	0.177		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.197		mg/Kg wet	0.200		98.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.142		mg/Kg wet	0.200		71.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.164		mg/Kg wet	0.200		81.8	30-150			
LCS Dup (B185830-BSD1)										
Prepared: 09/08/17 Analyzed: 09/10/17										
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.5	40-140	5.57	30	
Aroclor-1016 [2C]	0.21	0.020	mg/Kg wet	0.200		103	40-140	7.04	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		77.4	40-140	3.31	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		86.6	40-140	6.84	30	
Surrogate: Decachlorobiphenyl	0.179		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.199		mg/Kg wet	0.200		99.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.157		mg/Kg wet	0.200		78.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.182		mg/Kg wet	0.200		91.0	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 B185867 - SW-846 3540C										
Blank (B185867-BLK1)										
Prepared: 09/10/17 Analyzed: 09/16/17										
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]	0.182		mg/Kg wet	0.200		90.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.208		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.155		mg/Kg wet	0.200		77.3	30-150			
LCS (B185867-BS1)										
Prepared: 09/10/17 Analyzed: 09/16/17										
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		87.8	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		80.3	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.3	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.6	40-140			
Surrogate: Decachlorobiphenyl	0.200		mg/Kg wet	0.200		99.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.178		mg/Kg wet	0.200		89.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.148		mg/Kg wet	0.200		74.0	30-150			
LCS Dup (B185867-BSD1)										
Prepared: 09/10/17 Analyzed: 09/16/17										
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		81.8	40-140	7.09	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		76.3	40-140	5.16	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.6	40-140	2.21	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		77.3	40-140	1.68	30	
Surrogate: Decachlorobiphenyl	0.195		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.176		mg/Kg wet	0.200		88.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.151		mg/Kg wet	0.200		75.4	30-150			

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
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Batch B185867 - SW-846 3540C

Matrix Spike (B185867-MS1)

Source: 17I0112-05

Prepared: 09/10/17 Analyzed: 09/16/17

Aroclor-1016	0.19	0.090	mg/Kg dry	0.225	ND	84.1	40-140			
Aroclor-1016 [2C]	0.18	0.090	mg/Kg dry	0.225	ND	81.5	40-140			
Aroclor-1260	0.14	0.090	mg/Kg dry	0.225	ND	62.6	40-140			
Aroclor-1260 [2C]	0.15	0.090	mg/Kg dry	0.225	ND	65.7	40-140			
Surrogate: Decachlorobiphenyl	0.158		mg/Kg dry	0.225		70.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.172		mg/Kg dry	0.225		76.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.196		mg/Kg dry	0.225		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.203		mg/Kg dry	0.225		90.2	30-150			

Matrix Spike Dup (B185867-MSD1)

Source: 17I0112-05

Prepared: 09/10/17 Analyzed: 09/16/17

Aroclor-1016	0.24	0.091	mg/Kg dry	0.228	ND	106	40-140	23.7	50	
Aroclor-1016 [2C]	0.22	0.091	mg/Kg dry	0.228	ND	96.4	40-140	17.7	50	
Aroclor-1260	0.17	0.091	mg/Kg dry	0.228	ND	76.4	40-140	20.8	50	
Aroclor-1260 [2C]	0.18	0.091	mg/Kg dry	0.228	ND	80.3	40-140	21.0	50	
Surrogate: Decachlorobiphenyl	0.193		mg/Kg dry	0.228		84.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.209		mg/Kg dry	0.228		91.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.224		mg/Kg dry	0.228		98.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.239		mg/Kg dry	0.228		105	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 B185892 - SW-846 3510C										
Blank (B185892-BLK1)										
					Prepared: 09/11/17 Analyzed: 09/12/17					
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	0.0784		mg/L	0.100		78.4	50-150			
LCS (B185892-BS1)										
					Prepared: 09/11/17 Analyzed: 09/12/17					
CT ETPH	0.633	0.075	mg/L	1.00		63.3	60-120			
Surrogate: o-Terphenyl	0.0709		mg/L	0.100		70.9	50-150			
LCS Dup (B185892-BSD1)										
					Prepared: 09/11/17 Analyzed: 09/12/17					
CT ETPH	0.663	0.075	mg/L	1.00		66.3	60-120	4.71	30	
Surrogate: o-Terphenyl	0.0745		mg/L	0.100		74.5	50-150			
Batch B185921 - SW-846 3546										
Blank (B185921-BLK1)										
					Prepared: 09/11/17 Analyzed: 09/12/17					
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.52		mg/Kg wet	3.33		75.6	50-150			
LCS (B185921-BS1)										
					Prepared: 09/11/17 Analyzed: 09/12/17					
CT ETPH	20.3	10	mg/Kg wet	33.3		61.0	60-120			
Surrogate: o-Terphenyl	2.40		mg/Kg wet	3.33		72.0	50-150			
LCS Dup (B185921-BSD1)										
					Prepared: 09/11/17 Analyzed: 09/12/17					
CT ETPH	21.6	10	mg/Kg wet	33.3		64.8	60-120	6.10	30	
Surrogate: o-Terphenyl	2.51		mg/Kg wet	3.33		75.4	50-150			
Matrix Spike (B185921-MS1)										
					Source: 17I0112-03		Prepared: 09/11/17 Analyzed: 09/12/17			
CT ETPH	242	56	mg/Kg dry	37.3	261	-50.1 *	50-150			MS-07A
Surrogate: o-Terphenyl	2.44		mg/Kg dry	3.73		65.3	50-150			
Matrix Spike Dup (B185921-MSD1)										
					Source: 17I0112-03		Prepared: 09/11/17 Analyzed: 09/12/17			
CT ETPH	259	56	mg/Kg dry	37.3	261	-5.38 *	50-150	6.66	30	MS-07A
Surrogate: o-Terphenyl	2.47		mg/Kg dry	3.73		66.2	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 B185594 - % Solids										
Duplicate (B185594-DUP5)	Source: 17I0112-01			Prepared: 09/06/17 Analyzed: 09/07/17						
% Solids	78.8		% Wt			81.9		3.86	20	
Duplicate (B185594-DUP6)	Source: 17I0112-02			Prepared: 09/06/17 Analyzed: 09/07/17						
% Solids	81.2		% Wt			83.0		2.19	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.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
RL-12	Elevated reporting limit due to matrix interference.

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 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
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

CERTIFICATIONS

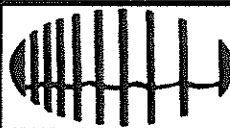
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
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 Public 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

39 Spruce St.
 East Longmeadow, MA. 01028
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 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 9/5/17 Time 1640
 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, 3.7
 By Blank # _____ Actual Temp - _____
 Was Custody Seal Intact? N/A Were Samples Tamped 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.	<u>6</u>	1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz <u>Amb/Clear</u>
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\A091217.SEC\A0912007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/12/17
 Data File Name A0912007.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	579219	601921	-4
c - 10	1.62	584624	601921	-3
c - 12	2.35	601930	601921	0
c - 14	3.01	613611	601921	2
c - 16	3.61	626238	601921	4
c - 18	4.23	617049	601921	3
o-Terphenyl	4.51	684250	601921	
c - 20	4.83	622766	601921	3
c - 22	5.34	629203	601921	5
c - 24	5.77	583868	601921	-3
c - 26	6.16	611957	601921	2
c - 28	6.52	601941	601921	0
c - 30	6.85	596395	601921	-1
c - 32	7.16	582912	601921	-3
c - 34	7.46	587710	601921	-2
c - 36	7.77	589388	601921	-2

* One compound allowed %D <= 50%

Samples
 17H1675-17

D:\HPCHEM\1\DATA\A091217.SEC\A0912039.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/12/17
 Data File Name A0912039.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	603049	629027	-4
c - 10	1.62	609325	629027	-3
c - 12	2.35	625871	629027	-1
c - 14	3.01	638455	629027	1
c - 16	3.61	652226	629027	4
c - 18	4.23	642382	629027	2
o-Terphenyl	4.51	713285	629027	
c - 20	4.83	648093	629027	3
c - 22	5.34	655317	629027	4
c - 24	5.77	608772	629027	-3
c - 26	6.16	639161	629027	2
c - 28	6.52	629708	629027	0
c - 30	6.85	627878	629027	0
c - 32	7.16	615300	629027	-2
c - 34	7.45	619133	629027	-2
c - 36	7.77	620740	629027	-1

* One compound allowed %D <= 50%

Samples
 17I0112-22
 17I0112-23
 17I0137-01
 17H1672-11

D:\HPCHEM\1\DATA\A091217\A0912006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/12/17
 Data File Name A0912006.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	501479	538055	-7
c - 10	1.64	508127	538055	-6
c - 12	2.37	526410	538055	-2
c - 14	3.05	540261	538055	0
c - 16	3.65	553396	538055	3
c - 18	4.29	547821	538055	2
o-Terphenyl	4.57	606869	538055	
c - 20	4.89	555426	538055	3
c - 22	5.39	565503	538055	5
c - 24	5.83	528778	538055	-2
c - 26	6.23	558205	538055	4
c - 28	6.59	551574	538055	3
c - 30	6.92	544804	538055	1
c - 32	7.24	528926	538055	-2
c - 34	7.53	529626	538055	-2
c - 36	7.88	530490	538055	-1

* One compound allowed %D <= 50%

Samples

17H1672-02
 17H1672-03
 17H1672-04
 17H1672-08
 17H1672-12
 17H1672-14
 17H1672-16
 17I0112-13
 17H1672-05

D:\HPCHEM\1\DATA\A091217\A0912038.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/12/17
 Data File Name A0912038.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	500546	539610	-7
c - 10	1.64	508067	539610	-6
c - 12	2.37	526540	539610	-2
c - 14	3.04	540306	539610	0
c - 16	3.65	554002	539610	3
c - 18	4.29	549170	539610	2
o-Terphenyl	4.57	609352	539610	
c - 20	4.89	557450	539610	3
c - 22	5.39	567557	539610	5
c - 24	5.83	530516	539610	-2
c - 26	6.23	560292	539610	4
c - 28	6.59	553131	539610	3
c - 30	6.92	548526	539610	2
c - 32	7.23	532844	539610	-1
c - 34	7.53	532454	539610	-1
c - 36	7.87	532753	539610	-1

* One compound allowed %D <= 50%

Samples

17I0112-06
 17I0112-03
 17I0112-10
 17I0112-15
 17I0112-19
 17I0297-01
 17H1672-01
 17H1672-09
 17I0112-01



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: 17I0112

Laboratory Sample ID(s):

Sample Date(s):

17I0112-01 thru 17I0112-23

09/05/2017

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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: 09/18/17

Name of Laboratory: Con-Test Analytical Laboratory

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