1760683

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	ETPH	SPLP ETPH	PAHs	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12W-SO-35-2A	13:04	7/18/17		X	S	U	X								
12	WS-AOC12W-SO-35-2B	13:06								X		X	X			
13	WS-AOC12W-SO-35-3	13:08						X								
14	WS-AOC12W-SO-35-4	13:10						X								
15	WS-AOC12W-SO-42-1	13:07						X								
16	WS-AOC12W-SO-42-2A	13:08						X								
17	WS-AOC12W-SO-42-2B	13:09								X		X	X			
18	WS-AOC12W-SO-42-3	13:10						X								
19	WS-AOC12W-SO-42-4	13:11						X								
20	WS-AOC12W-SO-41-1	13:16						X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature) 7/18/17	Date/Time:
Received by: (signature)	Date/Time: 7/18/17
Relinquished by: (signature)	Date/Time: 7/18/17 5PM
Received by: (signature)	Date/Time: 7/18/17 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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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

Received By JM Date 7/18/17 Time 1700

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 2.6
By Blank # ____ Actual Temp - ____

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

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	23
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\A072617\A0726006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	7/26/17
Data File Name	A0726006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.08	463644	527307	-12
c - 10	1.43	429813	527307	-18
c - 12	2.17	492951	527307	-7
c - 14	2.84	517034	527307	-2
c - 16	3.44	537487	527307	2
c - 18	4.02	535755	527307	2
o-Terphenyl	4.31	619261	527307	
c - 20	4.64	551123	527307	5
c - 22	5.16	563570	527307	7
c - 24	5.60	530548	527307	1
c - 26	6.00	565016	527307	7
c - 28	6.36	563865	527307	7
c - 30	6.70	559455	527307	6
c - 32	7.01	539794	527307	2
c - 34	7.30	533898	527307	1
c - 36	7.58	525647	527307	0

* One compound allowed %D </= 50%

Samples

17G0872-02
17G0872-03
17G0872-04
17G0872-08
17G0872-09
17G0872-11
17G0872-12
17G0872-13
17G0872-15
17G0872-19
17G0872-20

D:\HPCHEM\1\DATA\A072617\A0726062.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	7/27/17
Data File Name	A0726062.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.08	497436	574822	-13
c - 10	1.43	501948	574822	-13
c - 12	2.17	535419	574822	-7
c - 14	2.84	560592	574822	-2
c - 16	3.44	581051	574822	1
c - 18	4.02	581480	574822	1
o-Terphenyl	4.31	680583	574822	
c - 20	4.63	597706	574822	4
c - 22	5.16	610388	574822	6
c - 24	5.60	576317	574822	0
c - 26	6.00	614648	574822	7
c - 28	6.36	608413	574822	6
c - 30	6.70	610047	574822	6
c - 32	7.01	589773	574822	3
c - 34	7.30	582876	574822	1
c - 36	7.58	574232	574822	0

* One compound allowed %D <= 50%

Samples

17G0813-02
17G0813-03
17G0813-04
17G0813-05
17G0813-06
17G0813-08
17G0813-09
17G0943-01
17G0872-16
17G0872-17
17G0872-18
17G0872-01

D:\HPCHEM\1\DATA\A072617.SEC\A0726063.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	7/27/17
Data File Name	A0726063.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	498471	526360	-5
c - 10	1.49	504262	526360	-4
c - 12	2.22	524847	526360	0
c - 14	2.88	533222	526360	1
c - 16	3.48	543275	526360	3
c - 18	4.06	534698	526360	2
o-Terphenyl	4.35	617280	526360	
c - 20	4.67	545191	526360	4
c - 22	5.18	550713	526360	5
c - 24	5.62	513981	526360	-2
c - 26	6.01	540085	526360	3
c - 28	6.37	535002	526360	2
c - 30	6.70	527759	526360	0
c - 32	7.01	513103	526360	-3
c - 34	7.30	513967	526360	-2
c - 36	7.58	516823	526360	-2

* One compound allowed %D <= 50%

Samples

17G0683-17@100X
17G0687-15@5X
17G0813-07@5X
17G0813-11@5X
17G0813-12@5X
17G0813-13@5X
17G0683-12@5X

D:\HPCHEM\1\DATA\A072617.SEC\A0726007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	7/26/17
Data File Name	A0726007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	461239	489728	-6
c - 10	1.49	468196	489728	-4
c - 12	2.23	488778	489728	0
c - 14	2.89	498317	489728	2
c - 16	3.48	507877	489728	4
c - 18	4.06	500012	489728	2
o-Terphenyl	4.36	571721	489728	
c - 20	4.67	507396	489728	4
c - 22	5.18	513338	489728	5
c - 24	5.62	478474	489728	-2
c - 26	6.01	503104	489728	3
c - 28	6.37	494682	489728	1
c - 30	6.70	489882	489728	0
c - 32	7.01	476441	489728	-3
c - 34	7.30	478360	489728	-2
c - 36	7.58	479818	489728	-2

* One compound allowed %D <= 50%

Samples

17G0872-21
17G0872-22
17G0872-23

D:\HPCHEM\1\DATA\A072817\A0728006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	7/28/17
Data File Name	A0728006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	451956	506490	-11
c - 10	1.43	426315	506490	-16
c - 12	2.17	478068	506490	-6
c - 14	2.84	489455	506490	-3
c - 16	3.44	503555	506490	-1
c - 18	4.02	499971	506490	-1
o-Terphenyl	4.31	572874	506490	
c - 20	4.64	511535	506490	1
c - 22	5.16	531717	506490	5
c - 24	5.60	496000	506490	-2
c - 26	6.00	529893	506490	5
c - 28	6.36	531454	506490	5
c - 30	6.69	533987	506490	5
c - 32	7.01	528027	506490	4
c - 34	7.30	539030	506490	6
c - 36	7.58	546392	506490	8

* One compound allowed %D <= 50%

Samples

17G0813-10@20X
17G0683-12@20X

D:\HPCHEM\1\DATA\A080217.SEC\A0802053.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/2/17
Data File Name	A0802053.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	359815	380451	-5
c - 10	1.50	352547	380451	-7
c - 12	2.22	374391	380451	-2
c - 14	2.89	384612	380451	1
c - 16	3.48	394076	380451	4
c - 18	4.05	388606	380451	2
o-Terphenyl	4.36	444826	380451	
c - 20	4.67	393700	380451	3
c - 22	5.18	398363	380451	5
c - 24	5.62	371023	380451	-2
c - 26	6.01	389982	380451	3
c - 28	6.37	384491	380451	1
c - 30	6.70	383606	380451	1
c - 32	7.01	375705	380451	-1
c - 34	7.30	377889	380451	-1
c - 36	7.58	377960	380451	-1

* One compound allowed %D </= 50%

Samples

17G0683-12@20X
17G0774-04@10X

D:\HPCHEM\1\DATA\A080217.SEC\A080293.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/2/17
Data File Name	A080293.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	363192	388257	-6
c - 10	1.49	353450	388257	-9
c - 12	2.23	378033	388257	-3
c - 14	2.89	391251	388257	1
c - 16	3.48	401490	388257	3
c - 18	4.05	397496	388257	2
o-Terphenyl	4.36	454898	388257	
c - 20	4.66	404130	388257	4
c - 22	5.18	408473	388257	5
c - 24	5.62	379630	388257	-2
c - 26	6.01	399141	388257	3
c - 28	6.37	392867	388257	1
c - 30	6.70	393552	388257	1
c - 32	7.01	386366	388257	0
c - 34	7.30	387490	388257	0
c - 36	7.58	387297	388257	0

* One compound allowed %D </= 50%

Samples

17G1059-01@5X
17G0865-14@5X
17G0866-14@5X
17G1077-03
17G1079-06
17G1048-01@50X
17G0911-16@20X
17G0913-08@50X

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: 17G0683

Laboratory Sample ID(s):

17G0683-01 thru 17G0683-20

Sample Date(s):

07/18/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A, SW-846 8270D

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

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

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

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

Printed Name: **Lisa A. Worthington** **Date:** **08/03/17**

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

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

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

August 2, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G0685

Enclosed are results of analyses for samples received by the laboratory on July 18, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

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

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

REPORT DATE: 8/2/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0685

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-SO-41-2	17G0685-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-41-3	17G0685-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-41-4	17G0685-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-36-1	17G0685-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-36-2	17G0685-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-36-3	17G0685-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-36-4	17G0685-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-40-1 (MS)	17G0685-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-40-2	17G0685-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-40-3	17G0685-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-40-4	17G0685-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-37-1	17G0685-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-37-2A	17G0685-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-37-2B	17G0685-14	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC12W-SO-37-3	17G0685-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-37-4	17G0685-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-38-1	17G0685-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-38-2	17G0685-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-38-3	17G0685-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-38-4	17G0685-20	Soil		SM 2540G	
				SW-846 8082A	

con-test® ANALYTICAL LABORATORY

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

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8082A

Qualifications:

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Aroclor-1016 [2C]
B182401-BLK1, B182401-BS1, B182401-BSD1

Aroclor-1260 [2C]
B182401-BLK1, B182401-BS1, B182401-BSD1

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

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-41-2 Sampled: 7/18/2017 13:17

Sample ID: 17G0685-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 21:56	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 21:56	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 21:56	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 21:56	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 21:56	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 21:56	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 21:56	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 21:56	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 21:56	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	64.9	30-150		7/26/17 21:56
Decachlorobiphenyl [2]	72.5	30-150		7/26/17 21:56
Tetrachloro-m-xylene [1]	77.6	30-150		7/26/17 21:56
Tetrachloro-m-xylene [2]	81.2	30-150		7/26/17 21:56

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-41-2 Sampled: 7/18/2017 13:17

Sample ID: 17G0685-01

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	90.5		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-41-3 Sampled: 7/18/2017 13:18

Sample ID: 17G0685-02

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	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:38	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:38	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:38	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:38	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:38	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:38	JMB
Aroclor-1260 [1]	0.37	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:38	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:38	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:38	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	46.5	30-150		7/27/17 6:38
Decachlorobiphenyl [2]	55.1	30-150		7/27/17 6:38
Tetrachloro-m-xylene [1]	55.7	30-150		7/27/17 6:38
Tetrachloro-m-xylene [2]	56.1	30-150		7/27/17 6:38

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-41-3 Sampled: 7/18/2017 13:18

Sample ID: 17G0685-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.8		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-41-4 Sampled: 7/18/2017 13:19

Sample ID: 17G0685-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:21	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:21	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:21	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:21	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:21	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:21	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:21	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:21	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:21	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	54.1	30-150		7/26/17 22:21
Decachlorobiphenyl [2]	64.8	30-150		7/26/17 22:21
Tetrachloro-m-xylene [1]	65.7	30-150		7/26/17 22:21
Tetrachloro-m-xylene [2]	64.4	30-150		7/26/17 22:21

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-41-4 Sampled: 7/18/2017 13:19

Sample ID: 17G0685-03

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	78.3		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-36-1 Sampled: 7/18/2017 13:20

Sample ID: 17G0685-04

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	5		SW-846 8082A	7/24/17	7/26/17 22:33	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:33	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:33	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:33	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:33	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:33	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:33	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:33	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:33	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	46.6	30-150		7/26/17 22:33
Decachlorobiphenyl [2]	53.3	30-150		7/26/17 22:33
Tetrachloro-m-xylene [1]	59.3	30-150		7/26/17 22:33
Tetrachloro-m-xylene [2]	60.1	30-150		7/26/17 22:33

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-36-1 Sampled: 7/18/2017 13:20

Sample ID: 17G0685-04

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	94.2		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-36-2 Sampled: 7/18/2017 13:22

Sample ID: 17G0685-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:45	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:45	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:45	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:45	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:45	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:45	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:45	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:45	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:45	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	44.1	30-150		7/26/17 22:45
Decachlorobiphenyl [2]	51.4	30-150		7/26/17 22:45
Tetrachloro-m-xylene [1]	57.2	30-150		7/26/17 22:45
Tetrachloro-m-xylene [2]	58.1	30-150		7/26/17 22:45

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-36-2 Sampled: 7/18/2017 13:22

Sample ID: 17G0685-05

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	90.5		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-36-3 Sampled: 7/18/2017 13:24

Sample ID: 17G0685-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:58	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:58	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:58	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:58	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:58	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:58	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:58	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:58	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:58	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	58.6	30-150		7/26/17 22:58
Decachlorobiphenyl [2]	67.2	30-150		7/26/17 22:58
Tetrachloro-m-xylene [1]	75.6	30-150		7/26/17 22:58
Tetrachloro-m-xylene [2]	75.1	30-150		7/26/17 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: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-36-3 Sampled: 7/18/2017 13:24

Sample ID: 17G0685-06

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	86.4		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-36-4 Sampled: 7/18/2017 13:26

Sample ID: 17G0685-07

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	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:10	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:10	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:10	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:10	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:10	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:10	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:10	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:10	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:10	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	52.6	30-150		7/26/17 23:10
Decachlorobiphenyl [2]	58.0	30-150		7/26/17 23:10
Tetrachloro-m-xylene [1]	66.7	30-150		7/26/17 23:10
Tetrachloro-m-xylene [2]	70.9	30-150		7/26/17 23:10

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-36-4 Sampled: 7/18/2017 13:26

Sample ID: 17G0685-07

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	72.3		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-40-1 (MS) Sampled: 7/18/2017 13:33

Sample ID: 17G0685-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:23	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:23	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:23	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:23	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:23	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:23	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:23	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:23	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:23	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.4	30-150		7/26/17 23:23
Decachlorobiphenyl [2]	82.0	30-150		7/26/17 23:23
Tetrachloro-m-xylene [1]	87.4	30-150		7/26/17 23:23
Tetrachloro-m-xylene [2]	94.2	30-150		7/26/17 23:23

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-40-1 (MS) Sampled: 7/18/2017 13:33

Sample ID: 17G0685-08

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	95.3		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-40-2 Sampled: 7/18/2017 13:34

Sample ID: 17G0685-09

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	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:35	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:35	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:35	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:35	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:35	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:35	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:35	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:35	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:35	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.5	30-150		7/26/17 23:35
Decachlorobiphenyl [2]	72.2	30-150		7/26/17 23:35
Tetrachloro-m-xylene [1]	74.3	30-150		7/26/17 23:35
Tetrachloro-m-xylene [2]	75.9	30-150		7/26/17 23:35

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-40-2 Sampled: 7/18/2017 13:34

Sample ID: 17G0685-09

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	92.7		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-40-3 Sampled: 7/18/2017 13:35

Sample ID: 17G0685-10

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	5		SW-846 8082A	7/24/17	7/27/17 6:50	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:50	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:50	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:50	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:50	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:50	JMB
Aroclor-1260 [1]	0.38	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:50	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:50	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:50	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	64.2	30-150		7/27/17 6:50
Decachlorobiphenyl [2]	77.9	30-150		7/27/17 6:50
Tetrachloro-m-xylene [1]	80.3	30-150		7/27/17 6:50
Tetrachloro-m-xylene [2]	77.1	30-150		7/27/17 6:50

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-40-3 Sampled: 7/18/2017 13:35

Sample ID: 17G0685-10

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	84.0		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-40-4 Sampled: 7/18/2017 13:36

Sample ID: 17G0685-11

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	5		SW-846 8082A	7/24/17	7/27/17 0:37	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:37	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:37	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:37	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:37	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:37	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:37	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:37	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:37	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.4	30-150		7/27/17 0:37
Decachlorobiphenyl [2]	80.4	30-150		7/27/17 0:37
Tetrachloro-m-xylene [1]	84.5	30-150		7/27/17 0:37
Tetrachloro-m-xylene [2]	85.1	30-150		7/27/17 0:37

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-40-4 Sampled: 7/18/2017 13:36

Sample ID: 17G0685-11

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	72.7		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-37-1 Sampled: 7/18/2017 13:38

Sample ID: 17G0685-12

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	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:49	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:49	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:49	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:49	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:49	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:49	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:49	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:49	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:49	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	31.4	30-150		7/27/17 0:49
Decachlorobiphenyl [2]	35.2	30-150		7/27/17 0:49
Tetrachloro-m-xylene [1]	39.6	30-150		7/27/17 0:49
Tetrachloro-m-xylene [2]	41.6	30-150		7/27/17 0:49

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-37-1 Sampled: 7/18/2017 13:38

Sample ID: 17G0685-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.3		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-37-2A Sampled: 7/18/2017 13:30

Sample ID: 17G0685-13

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	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:02	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:02	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:02	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:02	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:02	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:02	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:02	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:02	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:02	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.6	30-150		7/27/17 1:02
Decachlorobiphenyl [2]	75.4	30-150		7/27/17 1:02
Tetrachloro-m-xylene [1]	74.7	30-150		7/27/17 1:02
Tetrachloro-m-xylene [2]	71.1	30-150		7/27/17 1:02

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-37-2A Sampled: 7/18/2017 13:30

Sample ID: 17G0685-13

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	89.2		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-37-2B Sampled: 7/18/2017 13:32

Sample ID: 17G0685-14

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	7/24/17	7/25/17 15:33	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Benzo(a)anthracene	0.47	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Benzo(a)pyrene	0.41	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Benzo(b)fluoranthene	0.87	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Benzo(g,h,i)perylene	0.26	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Benzo(k)fluoranthene	0.26	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Chrysene	0.89	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Fluoranthene	1.3	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Indeno(1,2,3-cd)pyrene	0.30	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
2-Methylnaphthalene	0.67	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Naphthalene	0.53	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Phenanthrene	1.3	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Pyrene	0.83	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	64.1	30-130		7/25/17 15:33
2-Fluorobiphenyl	64.4	30-130		7/25/17 15:33
p-Terphenyl-d14	66.2	30-130		7/25/17 15:33

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-37-2B Sampled: 7/18/2017 13:32

Sample ID: 17G0685-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.3		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-37-3 Sampled: 7/18/2017 13:34

Sample ID: 17G0685-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:14	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:14	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:14	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:14	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:14	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:14	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:14	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:14	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:14	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.8	30-150		7/27/17 1:14
Decachlorobiphenyl [2]	82.4	30-150		7/27/17 1:14
Tetrachloro-m-xylene [1]	92.7	30-150		7/27/17 1:14
Tetrachloro-m-xylene [2]	96.8	30-150		7/27/17 1:14

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-37-3 Sampled: 7/18/2017 13:34

Sample ID: 17G0685-15

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	86.1		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-37-4 Sampled: 7/18/2017 13:36

Sample ID: 17G0685-16

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	0.25	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:27	JMB
Aroclor-1221 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:27	JMB
Aroclor-1232 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:27	JMB
Aroclor-1242 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:27	JMB
Aroclor-1248 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:27	JMB
Aroclor-1254 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:27	JMB
Aroclor-1260 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:27	JMB
Aroclor-1262 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:27	JMB
Aroclor-1268 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.9	30-150		7/27/17 1:27
Decachlorobiphenyl [2]	91.3	30-150		7/27/17 1:27
Tetrachloro-m-xylene [1]	68.7	30-150		7/27/17 1:27
Tetrachloro-m-xylene [2]	66.5	30-150		7/27/17 1:27

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-37-4 Sampled: 7/18/2017 13:36

Sample ID: 17G0685-16

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	40.1		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-38-1 Sampled: 7/18/2017 13:46

Sample ID: 17G0685-17

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	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:39	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:39	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:39	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:39	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:39	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:39	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:39	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:39	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:39	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.7	30-150		7/27/17 1:39
Decachlorobiphenyl [2]	79.8	30-150		7/27/17 1:39
Tetrachloro-m-xylene [1]	92.0	30-150		7/27/17 1:39
Tetrachloro-m-xylene [2]	98.9	30-150		7/27/17 1:39

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-38-1 Sampled: 7/18/2017 13:46

Sample ID: 17G0685-17

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	97.1		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-38-2 Sampled: 7/18/2017 13:48

Sample ID: 17G0685-18

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	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:51	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:51	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:51	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:51	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:51	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:51	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:51	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:51	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:51	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	56.3	30-150		7/27/17 1:51
Decachlorobiphenyl [2]	64.7	30-150		7/27/17 1:51
Tetrachloro-m-xylene [1]	77.5	30-150		7/27/17 1:51
Tetrachloro-m-xylene [2]	77.1	30-150		7/27/17 1:51

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-38-2 Sampled: 7/18/2017 13:48

Sample ID: 17G0685-18

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	86.7		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-38-3 Sampled: 7/18/2017 13:50

Sample ID: 17G0685-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:04	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:04	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:04	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:04	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:04	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:04	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:04	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:04	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:04	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	59.7	30-150		7/27/17 2:04
Decachlorobiphenyl [2]	68.8	30-150		7/27/17 2:04
Tetrachloro-m-xylene [1]	83.1	30-150		7/27/17 2:04
Tetrachloro-m-xylene [2]	84.8	30-150		7/27/17 2:04

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-38-3 Sampled: 7/18/2017 13:50

Sample ID: 17G0685-19

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	85.3		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-38-4 Sampled: 7/18/2017 13:52

Sample ID: 17G0685-20

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	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:16	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:16	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:16	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:16	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:16	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:16	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:16	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:16	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.3	30-150		7/27/17 2:16
Decachlorobiphenyl [2]	75.1	30-150		7/27/17 2:16
Tetrachloro-m-xylene [1]	88.0	30-150		7/27/17 2:16
Tetrachloro-m-xylene [2]	92.1	30-150		7/27/17 2:16

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-38-4 Sampled: 7/18/2017 13:52

Sample ID: 17G0685-20

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	72.9		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0685-01 [WS-AOC12W-SO-41-2]	B182352	07/24/17
17G0685-02 [WS-AOC12W-SO-41-3]	B182352	07/24/17
17G0685-03 [WS-AOC12W-SO-41-4]	B182352	07/24/17
17G0685-04 [WS-AOC12W-SO-36-1]	B182352	07/24/17
17G0685-05 [WS-AOC12W-SO-36-2]	B182352	07/24/17
17G0685-06 [WS-AOC12W-SO-36-3]	B182352	07/24/17
17G0685-07 [WS-AOC12W-SO-36-4]	B182352	07/24/17
17G0685-08 [WS-AOC12W-SO-40-1 (MS)]	B182352	07/24/17
17G0685-09 [WS-AOC12W-SO-40-2]	B182352	07/24/17
17G0685-10 [WS-AOC12W-SO-40-3]	B182352	07/24/17
17G0685-11 [WS-AOC12W-SO-40-4]	B182352	07/24/17
17G0685-12 [WS-AOC12W-SO-37-1]	B182352	07/24/17
17G0685-13 [WS-AOC12W-SO-37-2A]	B182352	07/24/17
17G0685-14 [WS-AOC12W-SO-37-2B]	B182352	07/24/17
17G0685-15 [WS-AOC12W-SO-37-3]	B182352	07/24/17
17G0685-16 [WS-AOC12W-SO-37-4]	B182352	07/24/17
17G0685-17 [WS-AOC12W-SO-38-1]	B182352	07/24/17
17G0685-18 [WS-AOC12W-SO-38-2]	B182352	07/24/17
17G0685-19 [WS-AOC12W-SO-38-3]	B182352	07/24/17
17G0685-20 [WS-AOC12W-SO-38-4]	B182352	07/24/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0685-01 [WS-AOC12W-SO-41-2]	B182401	10.1	10.0	07/24/17
17G0685-02 [WS-AOC12W-SO-41-3]	B182401	10.2	10.0	07/24/17
17G0685-03 [WS-AOC12W-SO-41-4]	B182401	10.4	10.0	07/24/17
17G0685-04 [WS-AOC12W-SO-36-1]	B182401	10.1	10.0	07/24/17
17G0685-05 [WS-AOC12W-SO-36-2]	B182401	10.3	10.0	07/24/17
17G0685-06 [WS-AOC12W-SO-36-3]	B182401	10.0	10.0	07/24/17
17G0685-07 [WS-AOC12W-SO-36-4]	B182401	10.8	10.0	07/24/17
17G0685-08 [WS-AOC12W-SO-40-1 (MS)]	B182401	10.1	10.0	07/24/17
17G0685-09 [WS-AOC12W-SO-40-2]	B182401	10.1	10.0	07/24/17
17G0685-10 [WS-AOC12W-SO-40-3]	B182401	10.7	10.0	07/24/17
17G0685-11 [WS-AOC12W-SO-40-4]	B182401	10.3	10.0	07/24/17
17G0685-12 [WS-AOC12W-SO-37-1]	B182401	10.1	10.0	07/24/17
17G0685-13 [WS-AOC12W-SO-37-2A]	B182401	10.0	10.0	07/24/17
17G0685-15 [WS-AOC12W-SO-37-3]	B182401	10.0	10.0	07/24/17
17G0685-16 [WS-AOC12W-SO-37-4]	B182401	10.1	10.0	07/24/17
17G0685-17 [WS-AOC12W-SO-38-1]	B182401	10.3	10.0	07/24/17
17G0685-18 [WS-AOC12W-SO-38-2]	B182401	10.3	10.0	07/24/17
17G0685-19 [WS-AOC12W-SO-38-3]	B182401	10.0	10.0	07/24/17
17G0685-20 [WS-AOC12W-SO-38-4]	B182401	10.5	10.0	07/24/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0685-14 [WS-AOC12W-SO-37-2B]	B182398	30.0	1.00	07/24/17

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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 B182398 - SW-846 3546										
Blank (B182398-BLK1)				Prepared: 07/24/17 Analyzed: 07/25/17						
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	*2.34*		mg/Kg wet	3.33		70.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.43*		mg/Kg wet	3.33		73.0	30-130			
Surrogate: p-Terphenyl-d14	*3.03*		mg/Kg wet	3.33		90.8	30-130			
LCS (B182398-BS1)				Prepared: 07/24/17 Analyzed: 07/25/17						
Acenaphthene	1.12	0.17	mg/Kg wet	1.67		67.0	40-140			
Acenaphthylene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140			
Anthracene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140			
Benzo(a)anthracene	1.22	0.17	mg/Kg wet	1.67		73.2	40-140			
Benzo(a)pyrene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140			
Benzo(b)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.4	40-140			
Benzo(g,h,i)perylene	1.31	0.17	mg/Kg wet	1.67		78.4	40-140			
Benzo(k)fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140			
Chrysene	1.20	0.17	mg/Kg wet	1.67		72.1	40-140			
Dibenz(a,h)anthracene	1.25	0.17	mg/Kg wet	1.67		75.1	40-140			
Fluoranthene	1.17	0.17	mg/Kg wet	1.67		69.9	40-140			
Fluorene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Indeno(1,2,3-cd)pyrene	1.26	0.17	mg/Kg wet	1.67		75.8	40-140			
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.7	40-140			
Naphthalene	1.07	0.17	mg/Kg wet	1.67		64.4	40-140			
Phenanthrene	1.19	0.17	mg/Kg wet	1.67		71.3	40-140			
Pyrene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140			
Surrogate: Nitrobenzene-d5	*2.55*		mg/Kg wet	3.33		76.4	30-130			
Surrogate: 2-Fluorobiphenyl	*2.55*		mg/Kg wet	3.33		76.5	30-130			
Surrogate: p-Terphenyl-d14	*2.81*		mg/Kg wet	3.33		84.3	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 B182398 - SW-846 3546										
LCS Dup (B182398-BSD1)				Prepared: 07/24/17 Analyzed: 07/25/17						
Acenaphthene	1.18	0.17	mg/Kg wet	1.67		70.9	40-140	5.68	30	
Acenaphthylene	1.14	0.17	mg/Kg wet	1.67		68.6	40-140	5.54	30	
Anthracene	1.28	0.17	mg/Kg wet	1.67		76.5	40-140	6.12	30	
Benzo(a)anthracene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140	7.19	30	
Benzo(a)pyrene	1.31	0.17	mg/Kg wet	1.67		78.5	40-140	7.72	30	
Benzo(b)fluoranthene	1.22	0.17	mg/Kg wet	1.67		73.1	40-140	6.59	30	
Benzo(g,h,i)perylene	1.37	0.17	mg/Kg wet	1.67		82.0	40-140	4.46	30	
Benzo(k)fluoranthene	1.22	0.17	mg/Kg wet	1.67		72.9	40-140	5.20	30	
Chrysene	1.30	0.17	mg/Kg wet	1.67		77.7	40-140	7.53	30	
Dibenz(a,h)anthracene	1.34	0.17	mg/Kg wet	1.67		80.3	40-140	6.67	30	
Fluoranthene	1.24	0.17	mg/Kg wet	1.67		74.6	40-140	6.45	30	
Fluorene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140	4.72	30	
Indeno(1,2,3-cd)pyrene	1.30	0.17	mg/Kg wet	1.67		78.2	40-140	3.09	30	
2-Methylnaphthalene	1.22	0.17	mg/Kg wet	1.67		73.1	40-140	7.64	30	
Naphthalene	1.16	0.17	mg/Kg wet	1.67		69.8	40-140	7.99	30	
Phenanthrene	1.28	0.17	mg/Kg wet	1.67		76.6	40-140	7.22	30	
Pyrene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140	5.22	30	
Surrogate: Nitrobenzene-d5	*2.77*		mg/Kg wet	3.33		83.0	30-130			
Surrogate: 2-Fluorobiphenyl	*2.65*		mg/Kg wet	3.33		79.6	30-130			
Surrogate: p-Terphenyl-d14	*2.93*		mg/Kg wet	3.33		88.0	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 B182401 - SW-846 3540C										
Blank (B182401-BLK1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							V-05
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							V-05
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	*0.144*		mg/Kg wet	0.200		72.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.133*		mg/Kg wet	0.200		66.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.164*		mg/Kg wet	0.200		82.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.142*		mg/Kg wet	0.200		70.8	30-150			
LCS (B182401-BS1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		82.4	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		82.1	40-140			V-05
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.3	40-140			
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		72.2	40-140			V-05
Surrogate: Decachlorobiphenyl	*0.167*		mg/Kg wet	0.200		83.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.145*		mg/Kg wet	0.200		72.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.171*		mg/Kg wet	0.200		85.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.143*		mg/Kg wet	0.200		71.4	30-150			
LCS Dup (B182401-BSD1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		77.7	40-140	5.81	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		76.7	40-140	6.89	30	V-05
Aroclor-1260	0.14	0.020	mg/Kg wet	0.200		70.3	40-140	8.25	30	
Aroclor-1260 [2C]	0.13	0.020	mg/Kg wet	0.200		66.7	40-140	7.96	30	V-05
Surrogate: Decachlorobiphenyl	*0.153*		mg/Kg wet	0.200		76.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.141*		mg/Kg wet	0.200		70.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.174*		mg/Kg wet	0.200		87.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.150*		mg/Kg wet	0.200		74.8	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 B182401 - SW-846 3540C										
Matrix Spike (B182401-MS1)		**Source: 17G0685-08**		Prepared: 07/24/17 Analyzed: 07/27/17						
Aroclor-1016	0.18	0.10	mg/Kg dry	0.210	ND	83.5	40-140			
Aroclor-1016 [2C]	0.18	0.10	mg/Kg dry	0.210	ND	86.4	40-140			
Aroclor-1260	0.15	0.10	mg/Kg dry	0.210	ND	70.2	40-140			
Aroclor-1260 [2C]	0.14	0.10	mg/Kg dry	0.210	ND	66.4	40-140			
Surrogate: Decachlorobiphenyl	*0.139*		mg/Kg dry	0.210		66.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.152*		mg/Kg dry	0.210		72.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.166*		mg/Kg dry	0.210		79.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg dry	0.210		84.2	30-150			
Matrix Spike Dup (B182401-MSD1)		**Source: 17G0685-08**		Prepared: 07/24/17 Analyzed: 07/27/17						
Aroclor-1016	0.19	0.10	mg/Kg dry	0.208	ND	93.4	40-140	10.2	50	
Aroclor-1016 [2C]	0.20	0.10	mg/Kg dry	0.208	ND	95.3	40-140	8.87	50	
Aroclor-1260	0.16	0.10	mg/Kg dry	0.208	ND	76.7	40-140	7.92	50	
Aroclor-1260 [2C]	0.16	0.10	mg/Kg dry	0.208	ND	76.5	40-140	13.1	50	
Surrogate: Decachlorobiphenyl	*0.148*		mg/Kg dry	0.208		71.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.152*		mg/Kg dry	0.208		73.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.169*		mg/Kg dry	0.208		81.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.182*		mg/Kg dry	0.208		87.8	30-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182352 - % Solids										
Duplicate (B182352-DUP5)		**Source: 17G0685-08**		Prepared: 07/24/17 Analyzed: 07/25/17						
% Solids	95.5		% Wt		95.3			0.210	20	
Duplicate (B182352-DUP6)		**Source: 17G0685-09**		Prepared: 07/24/17 Analyzed: 07/25/17						
% Solids	92.1		% Wt		92.7			0.649	20	

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-41-3

Lab Sample ID: 17G0685-02

Date(s) Analyzed 07/27/2017 07/27/2017

Instrument ID (1): ECD 9

Instrument ID (2): ECD 9

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.37	
	2	0.000	-0.030	0.030	0.36	5.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-40-3

Lab Sample ID: 17G0685-10 Date(s) Analyzed 07/27/2017 07/27/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.38	
	2	0.000	-0.030	0.030	0.36	5.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182401-BS1 Date(s) Analyzed 07/26/2017 07/26/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	6.1
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.14	6.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182401-BSD1 Date(s) Analyzed 07/26/2017 07/26/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.15	6.5
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.13	7.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182401-MS1

Date(s) Analyzed 07/27/2017 07/27/2017

Instrument ID (1): ECD 9

Instrument ID (2): ECD 9

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.18	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.14	6.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182401-MSD1

Date(s) Analyzed 07/27/2017 07/27/2017

Instrument ID (1): ECD 9

Instrument ID (2): ECD 9

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

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CERTIFICATIONS

Certified Analyses included in this Report

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

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

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

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 7 of 11

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	ETPH	SPLP ETPH	PAHs	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12W-SO-41-2	7/18/17	13:17		X	S	U	X								
2	WS-AOC12W-SO-41-3		13:18					X								
3	WS-AOC12W-SO-41-4		13:19					X								
4	WS-AOC12W-SO-36-1		13:20					X								
5	WS-AOC12W-SO-36-2		13:22					X								
6	WS-AOC12W-SO-36-3		13:24					X								
7	WS-AOC12W-SO-36-4		13:26					X								
8	WS-AOC12W-SO-40-1(MS)		13:33					X								
9	WS-AOC12W-SO-40-2		13:34					X								
10	WS-AOC12W-SO-40-3		13:35					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments:
WS-AOC12W-SO-40-1 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

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

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

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

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

Relinquished by: (signature)	Date/Time: 7/18/17
Received by: (signature)	Date/Time: 7/18/17
Relinquished by: (signature)	Date/Time: 7/18/17 3pm
Received by: (signature)	Date/Time: 7/18/17 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	ETPH	SPLP ETPH	PAHs	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12W-SO-40-4	7/18/17	13:34		X	S	U	X								
12	WS-AOC12W-SO-37-1		13:38					X								
13	WS-AOC12W-SO-37-2A		13:30					X								
14	WS-AOC12W-SO-37-2B		13:32									X				
15	WS-AOC12W-SO-37-3		13:34					X								
16	WS-AOC12W-SO-37-4		13:36					X								
17	WS-AOC12W-SO-38-1		13:46					X								
18	WS-AOC12W-SO-38-2		13:48					X								
19	WS-AOC12W-SO-38-3		13:50					X								
20	WS-AOC12W-SO-38-4		13:52					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature) 7/18/17	Date/Time:
Received by: (signature)	Date/Time: 7/18/17 1500
Relinquished by: (signature)	Date/Time: 7/18/17 5PM
Received by: (signature)	Date/Time: 7/18/17 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By JM Date 7/18/17 Time 1700

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____
By Gun # 1 Actual Temp - 2.6/2.8

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

Was Custody Seal Intact? N/A Were Samples Tampered with? F

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? N/A Who was notified? ____

Are there Rushes? N/A Who was notified? ____

Are there Short Holds? N/A Who was notified? ____

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? T

Proper Media/Containers Used? T Is splitting samples required? N/A

Were trip blanks received? N/A On COC? N/A

Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	22
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

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: 17G0685

Laboratory Sample ID(s):

17G0685-01 thru 17G0685-20

Sample Date(s):

07/18/2017

List RCP Methods Used:

SW-846 8082A, SW-846 8270D

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

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

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

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

Printed Name: **Lisa A. Worthington** **Date:** **07/28/17**

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

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

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

August 3, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G0774

Enclosed are results of analyses for samples received by the laboratory on July 19, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

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

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

REPORT DATE: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0774

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-SO-47-1	17G0774-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-47-2	17G0774-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-47-3	17G0774-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-54-1	17G0774-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-54-2	17G0774-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-54-3	17G0774-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-58-1A	17G0774-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-58-1B	17G0774-08	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
WS-AOC12W-SO-58-2	17G0774-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-58-3	17G0774-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-64-1A	17G0774-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-64-1B	17G0774-12	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
WS-AOC12W-SO-64-2	17G0774-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-64-3	17G0774-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-67-1	17G0774-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-67-2	17G0774-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-67-3	17G0774-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-49-1A	17G0774-18	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: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0774

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-SO-49-1B	17G0774-19	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 8270D	
WS-AOC12W-SO-49-2	17G0774-20	Soil		SM 2540G	
				SW-846 8082A	

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

CASE NARRATIVE SUMMARY

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

For method 6010, only As was requested and reported.

For method 8270, only PAHs were requested and reported.

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

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

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

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-47-1 Sampled: 7/19/2017 08:55

Sample ID: 17G0774-01

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	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:15	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:15	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:15	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:15	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:15	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:15	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:15	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:15	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.7	30-150		7/27/17 23:15
Decachlorobiphenyl [2]	78.6	30-150		7/27/17 23:15
Tetrachloro-m-xylene [1]	76.2	30-150		7/27/17 23:15
Tetrachloro-m-xylene [2]	71.1	30-150		7/27/17 23:15

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-47-1 Sampled: 7/19/2017 08:55

Sample ID: 17G0774-01

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	96.6		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-47-2 Sampled: 7/19/2017 08:57

Sample ID: 17G0774-02

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	5		SW-846 8082A	7/25/17	7/27/17 23:33	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:33	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:33	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:33	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:33	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:33	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:33	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:33	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:33	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	60.8	30-150		7/27/17 23:33
Decachlorobiphenyl [2]	62.2	30-150		7/27/17 23:33
Tetrachloro-m-xylene [1]	60.6	30-150		7/27/17 23:33
Tetrachloro-m-xylene [2]	59.1	30-150		7/27/17 23:33

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-47-2 Sampled: 7/19/2017 08:57

Sample ID: 17G0774-02

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	87.8		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-47-3 Sampled: 7/19/2017 08:59

Sample ID: 17G0774-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:52	TG
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:52	TG
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:52	TG
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:52	TG
Aroclor-1248 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:52	TG
Aroclor-1254 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:52	TG
Aroclor-1260 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:52	TG
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:52	TG
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:52	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.3	30-150		7/27/17 23:52
Decachlorobiphenyl [2]	97.6	30-150		7/27/17 23:52
Tetrachloro-m-xylene [1]	93.5	30-150		7/27/17 23:52
Tetrachloro-m-xylene [2]	86.6	30-150		7/27/17 23:52

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-47-3 Sampled: 7/19/2017 08:59

Sample ID: 17G0774-03

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	60.9		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-54-1 Sampled: 7/19/2017 09:24

Sample ID: 17G0774-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:10	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:10	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:10	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:10	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:10	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:10	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:10	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:10	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:10	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	105	30-150		7/28/17 0:10
Decachlorobiphenyl [2]	107	30-150		7/28/17 0:10
Tetrachloro-m-xylene [1]	103	30-150		7/28/17 0:10
Tetrachloro-m-xylene [2]	97.1	30-150		7/28/17 0:10

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-54-1 Sampled: 7/19/2017 09:24

Sample ID: 17G0774-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.7		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-54-2 Sampled: 7/19/2017 09:26

Sample ID: 17G0774-05

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	5		SW-846 8082A	7/25/17	7/28/17 0:28	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:28	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:28	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:28	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:28	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:28	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:28	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:28	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:28	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.1	30-150		7/28/17 0:28
Decachlorobiphenyl [2]	72.1	30-150		7/28/17 0:28
Tetrachloro-m-xylene [1]	69.2	30-150		7/28/17 0:28
Tetrachloro-m-xylene [2]	66.2	30-150		7/28/17 0:28

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-54-2 Sampled: 7/19/2017 09:26

Sample ID: 17G0774-05

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	79.5		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-54-3 Sampled: 7/19/2017 09:28

Sample ID: 17G0774-06

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	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:46	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:46	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:46	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:46	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:46	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:46	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:46	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:46	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:46	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.7	30-150		7/28/17 0:46
Decachlorobiphenyl [2]	85.8	30-150		7/28/17 0:46
Tetrachloro-m-xylene [1]	82.2	30-150		7/28/17 0:46
Tetrachloro-m-xylene [2]	78.4	30-150		7/28/17 0:46

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-54-3 Sampled: 7/19/2017 09:28

Sample ID: 17G0774-06

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	78.9		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-58-1A Sampled: 7/19/2017 09:38

Sample ID: 17G0774-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:04	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:04	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:04	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:04	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:04	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:04	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:04	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:04	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:04	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.4	30-150		7/28/17 1:04
Decachlorobiphenyl [2]	94.7	30-150		7/28/17 1:04
Tetrachloro-m-xylene [1]	92.2	30-150		7/28/17 1:04
Tetrachloro-m-xylene [2]	86.5	30-150		7/28/17 1:04

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-58-1A Sampled: 7/19/2017 09:38

Sample ID: 17G0774-07

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	95.2		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-58-1B Sampled: 7/19/2017 09:39

Sample ID: 17G0774-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	58	11	mg/Kg dry	1		CTDEP ETPH	7/26/17	8/3/17 0:29	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	65.0	50-150		8/3/17 0:29

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-58-1B Sampled: 7/19/2017 09:39

Sample ID: 17G0774-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C-D	7/21/17	7/24/17 18:05	QNW

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-58-1B Sampled: 7/19/2017 09:39

Sample ID: 17G0774-08

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	94.9		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-58-2 Sampled: 7/19/2017 09:40

Sample ID: 17G0774-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:22	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:22	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:22	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:22	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:22	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:22	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:22	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:22	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:22	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.9	30-150		7/28/17 1:22
Decachlorobiphenyl [2]	82.5	30-150		7/28/17 1:22
Tetrachloro-m-xylene [1]	77.1	30-150		7/28/17 1:22
Tetrachloro-m-xylene [2]	69.9	30-150		7/28/17 1:22

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-58-2 Sampled: 7/19/2017 09:40

Sample ID: 17G0774-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.3		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-58-3 Sampled: 7/19/2017 09:41

Sample ID: 17G0774-10

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	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:29	TG
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:29	TG
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:29	TG
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:29	TG
Aroclor-1248 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:29	TG
Aroclor-1254 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:29	TG
Aroclor-1260 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:29	TG
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:29	TG
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:29	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.7	30-150		7/28/17 2:29
Decachlorobiphenyl [2]	87.2	30-150		7/28/17 2:29
Tetrachloro-m-xylene [1]	86.7	30-150		7/28/17 2:29
Tetrachloro-m-xylene [2]	82.0	30-150		7/28/17 2:29

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-58-3 Sampled: 7/19/2017 09:41

Sample ID: 17G0774-10

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	62.1		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-64-1A Sampled: 7/19/2017 10:09

Sample ID: 17G0774-11

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	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:48	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:48	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:48	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:48	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:48	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:48	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:48	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:48	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:48	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	98.1	30-150		7/28/17 2:48
Decachlorobiphenyl [2]	98.1	30-150		7/28/17 2:48
Tetrachloro-m-xylene [1]	97.5	30-150		7/28/17 2:48
Tetrachloro-m-xylene [2]	92.6	30-150		7/28/17 2:48

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-64-1A Sampled: 7/19/2017 10:09

Sample ID: 17G0774-11

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	95.9		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-64-1B Sampled: 7/19/2017 10:11

Sample ID: 17G0774-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	270	110	mg/Kg dry	10		CTDEP ETPH	7/26/17	8/2/17 22:25	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	93.0	50-150		8/2/17 22:25

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-64-1B Sampled: 7/19/2017 10:11

Sample ID: 17G0774-12

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	9.1	2.7	mg/Kg dry	1		SW-846 6010C-D	7/21/17	7/24/17 18:05	QNW

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-64-1B Sampled: 7/19/2017 10:11

Sample ID: 17G0774-12

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	91.7		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-64-2 Sampled: 7/19/2017 10:13

Sample ID: 17G0774-13

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	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:06	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:06	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:06	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:06	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:06	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:06	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:06	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:06	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:06	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.0	30-150		7/28/17 3:06
Decachlorobiphenyl [2]	93.3	30-150		7/28/17 3:06
Tetrachloro-m-xylene [1]	87.8	30-150		7/28/17 3:06
Tetrachloro-m-xylene [2]	81.0	30-150		7/28/17 3:06

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-64-2 Sampled: 7/19/2017 10:13

Sample ID: 17G0774-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.6		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-64-3 Sampled: 7/19/2017 10:14

Sample ID: 17G0774-14

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	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:24	TG
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:24	TG
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:24	TG
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:24	TG
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:24	TG
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:24	TG
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:24	TG
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:24	TG
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:24	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.9	30-150		7/28/17 3:24
Decachlorobiphenyl [2]	89.3	30-150		7/28/17 3:24
Tetrachloro-m-xylene [1]	83.4	30-150		7/28/17 3:24
Tetrachloro-m-xylene [2]	80.4	30-150		7/28/17 3:24

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-64-3 Sampled: 7/19/2017 10:14

Sample ID: 17G0774-14

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	69.8		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-67-1 Sampled: 7/19/2017 10:16

Sample ID: 17G0774-15

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	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:42	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:42	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:42	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:42	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:42	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:42	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:42	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:42	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:42	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.5	30-150		7/28/17 3:42
Decachlorobiphenyl [2]	92.6	30-150		7/28/17 3:42
Tetrachloro-m-xylene [1]	88.1	30-150		7/28/17 3:42
Tetrachloro-m-xylene [2]	83.7	30-150		7/28/17 3:42

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-67-1 Sampled: 7/19/2017 10:16

Sample ID: 17G0774-15

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	93.8		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-67-2 Sampled: 7/19/2017 10:17

Sample ID: 17G0774-16

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	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:00	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:00	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:00	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:00	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:00	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:00	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:00	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:00	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:00	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.6	30-150		7/28/17 4:00
Decachlorobiphenyl [2]	93.9	30-150		7/28/17 4:00
Tetrachloro-m-xylene [1]	87.9	30-150		7/28/17 4:00
Tetrachloro-m-xylene [2]	79.6	30-150		7/28/17 4:00

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-67-2 Sampled: 7/19/2017 10:17

Sample ID: 17G0774-16

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.9		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-67-3 Sampled: 7/19/2017 10:18

Sample ID: 17G0774-17

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	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:18	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:18	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:18	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:18	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:18	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:18	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:18	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:18	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:18	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.1	30-150		7/28/17 4:18
Decachlorobiphenyl [2]	62.6	30-150		7/28/17 4:18
Tetrachloro-m-xylene [1]	58.0	30-150		7/28/17 4:18
Tetrachloro-m-xylene [2]	55.8	30-150		7/28/17 4:18

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-67-3 Sampled: 7/19/2017 10:18

Sample ID: 17G0774-17

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	78.2		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-49-1A Sampled: 7/19/2017 10:41

Sample ID: 17G0774-18

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	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:36	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:36	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:36	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:36	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:36	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:36	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:36	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:36	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:36	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.8	30-150		7/28/17 4:36
Decachlorobiphenyl [2]	81.3	30-150		7/28/17 4:36
Tetrachloro-m-xylene [1]	86.0	30-150		7/28/17 4:36
Tetrachloro-m-xylene [2]	82.1	30-150		7/28/17 4:36

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-49-1A Sampled: 7/19/2017 10:41

Sample ID: 17G0774-18

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	94.7		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-49-1B Sampled: 7/19/2017 10:42

Sample ID: 17G0774-19

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Chrysene	0.40	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Fluoranthene	0.24	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
2-Methylnaphthalene	0.34	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Phenanthrene	0.66	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Pyrene	0.27	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	48.6	30-130		7/28/17 22:03
2-Fluorobiphenyl	41.7	30-130		7/28/17 22:03
p-Terphenyl-d14	51.1	30-130		7/28/17 22:03

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-49-1B Sampled: 7/19/2017 10:42

Sample ID: 17G0774-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	290	110	mg/Kg dry	10		CTDEP ETPH	7/26/17	8/3/17 11:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	51.2	50-150		8/3/17 11:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-49-1B Sampled: 7/19/2017 10:42

Sample ID: 17G0774-19

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	16	2.7	mg/Kg dry	1		SW-846 6010C-D	7/21/17	7/24/17 18:05	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-49-1B Sampled: 7/19/2017 10:42

Sample ID: 17G0774-19

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	89.5		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-49-2 Sampled: 7/19/2017 10:43

Sample ID: 17G0774-20

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	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:55	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:55	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:55	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:55	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:55	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:55	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:55	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:55	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:55	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.2	30-150		7/28/17 4:55
Decachlorobiphenyl [2]	90.8	30-150		7/28/17 4:55
Tetrachloro-m-xylene [1]	87.6	30-150		7/28/17 4:55
Tetrachloro-m-xylene [2]	79.1	30-150		7/28/17 4:55

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-49-2 Sampled: 7/19/2017 10:43

Sample ID: 17G0774-20

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	85.1		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0774-08 [WS-AOC12W-SO-58-1B]	B182589	30.0	1.00	07/26/17
17G0774-12 [WS-AOC12W-SO-64-1B]	B182589	30.0	1.00	07/26/17
17G0774-19 [WS-AOC12W-SO-49-1B]	B182589	30.0	1.00	07/26/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0774-01 [WS-AOC12W-SO-47-1]	B182552	07/26/17
17G0774-02 [WS-AOC12W-SO-47-2]	B182552	07/26/17
17G0774-03 [WS-AOC12W-SO-47-3]	B182552	07/26/17
17G0774-04 [WS-AOC12W-SO-54-1]	B182552	07/26/17
17G0774-05 [WS-AOC12W-SO-54-2]	B182552	07/26/17
17G0774-06 [WS-AOC12W-SO-54-3]	B182552	07/26/17
17G0774-07 [WS-AOC12W-SO-58-1A]	B182552	07/26/17
17G0774-08 [WS-AOC12W-SO-58-1B]	B182552	07/26/17
17G0774-09 [WS-AOC12W-SO-58-2]	B182552	07/26/17
17G0774-10 [WS-AOC12W-SO-58-3]	B182552	07/26/17
17G0774-11 [WS-AOC12W-SO-64-1A]	B182552	07/26/17
17G0774-12 [WS-AOC12W-SO-64-1B]	B182552	07/26/17
17G0774-13 [WS-AOC12W-SO-64-2]	B182552	07/26/17
17G0774-14 [WS-AOC12W-SO-64-3]	B182552	07/26/17
17G0774-15 [WS-AOC12W-SO-67-1]	B182552	07/26/17
17G0774-16 [WS-AOC12W-SO-67-2]	B182552	07/26/17
17G0774-17 [WS-AOC12W-SO-67-3]	B182552	07/26/17
17G0774-18 [WS-AOC12W-SO-49-1A]	B182552	07/26/17
17G0774-19 [WS-AOC12W-SO-49-1B]	B182552	07/26/17
17G0774-20 [WS-AOC12W-SO-49-2]	B182552	07/26/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0774-08 [WS-AOC12W-SO-58-1B]	B182194	1.01	50.0	07/21/17
17G0774-12 [WS-AOC12W-SO-64-1B]	B182194	1.02	50.0	07/21/17
17G0774-19 [WS-AOC12W-SO-49-1B]	B182194	1.05	50.0	07/21/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0774-01 [WS-AOC12W-SO-47-1]	B182503	10.0	10.0	07/25/17
17G0774-02 [WS-AOC12W-SO-47-2]	B182503	10.0	10.0	07/25/17
17G0774-03 [WS-AOC12W-SO-47-3]	B182503	10.0	10.0	07/25/17
17G0774-04 [WS-AOC12W-SO-54-1]	B182503	10.0	10.0	07/25/17
17G0774-05 [WS-AOC12W-SO-54-2]	B182503	10.0	10.0	07/25/17
17G0774-06 [WS-AOC12W-SO-54-3]	B182503	10.0	10.0	07/25/17
17G0774-07 [WS-AOC12W-SO-58-1A]	B182503	10.0	10.0	07/25/17
17G0774-09 [WS-AOC12W-SO-58-2]	B182503	10.0	10.0	07/25/17
17G0774-10 [WS-AOC12W-SO-58-3]	B182503	10.0	10.0	07/25/17
17G0774-11 [WS-AOC12W-SO-64-1A]	B182503	10.0	10.0	07/25/17
17G0774-13 [WS-AOC12W-SO-64-2]	B182503	10.0	10.0	07/25/17
17G0774-14 [WS-AOC12W-SO-64-3]	B182503	10.0	10.0	07/25/17
17G0774-15 [WS-AOC12W-SO-67-1]	B182503	10.0	10.0	07/25/17

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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
17G0774-16 [WS-AOC12W-SO-67-2]	B182503	10.0	10.0	07/25/17
17G0774-17 [WS-AOC12W-SO-67-3]	B182503	10.0	10.0	07/25/17
17G0774-18 [WS-AOC12W-SO-49-1A]	B182503	10.0	10.0	07/25/17
17G0774-20 [WS-AOC12W-SO-49-2]	B182503	10.0	10.0	07/25/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0774-19 [WS-AOC12W-SO-49-1B]	B182604	30.0	1.00	07/26/17

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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 B182604 - SW-846 3546										
Blank (B182604-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.42*		mg/Kg wet	3.33		72.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.72*		mg/Kg wet	3.33		81.5	30-130			
LCS (B182604-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	0.860	0.17	mg/Kg wet	1.67		51.6	40-140			
Acenaphthylene	0.832	0.17	mg/Kg wet	1.67		49.9	40-140			
Anthracene	0.914	0.17	mg/Kg wet	1.67		54.8	40-140			
Benzo(a)anthracene	0.935	0.17	mg/Kg wet	1.67		56.1	40-140			
Benzo(a)pyrene	0.940	0.17	mg/Kg wet	1.67		56.4	40-140			
Benzo(b)fluoranthene	0.852	0.17	mg/Kg wet	1.67		51.1	40-140			
Benzo(g,h,i)perylene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140			
Benzo(k)fluoranthene	0.863	0.17	mg/Kg wet	1.67		51.8	40-140			
Chrysene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Dibenz(a,h)anthracene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140			
Fluoranthene	0.889	0.17	mg/Kg wet	1.67		53.3	40-140			
Fluorene	0.876	0.17	mg/Kg wet	1.67		52.6	40-140			
Indeno(1,2,3-cd)pyrene	0.984	0.17	mg/Kg wet	1.67		59.1	40-140			
2-Methylnaphthalene	0.851	0.17	mg/Kg wet	1.67		51.0	40-140			
Naphthalene	0.836	0.17	mg/Kg wet	1.67		50.1	40-140			
Phenanthrene	0.915	0.17	mg/Kg wet	1.67		54.9	40-140			
Pyrene	0.887	0.17	mg/Kg wet	1.67		53.2	40-140			
Surrogate: Nitrobenzene-d5	*1.92*		mg/Kg wet	3.33		57.6	30-130			
Surrogate: 2-Fluorobiphenyl	*1.93*		mg/Kg wet	3.33		57.9	30-130			
Surrogate: p-Terphenyl-d14	*2.13*		mg/Kg wet	3.33		63.8	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 B182604 - SW-846 3546										
LCS Dup (B182604-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	19.3	30	
Acenaphthylene	1.02	0.17	mg/Kg wet	1.67		61.1	40-140	20.0	30	
Anthracene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140	20.1	30	
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	19.2	30	
Benzo(a)pyrene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	17.1	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	17.2	30	
Benzo(g,h,i)perylene	1.35	0.17	mg/Kg wet	1.67		81.1	40-140	20.0	30	
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140	18.4	30	
Chrysene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140	17.4	30	
Dibenz(a,h)anthracene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140	20.4	30	
Fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140	22.5	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.6	40-140	19.0	30	
Indeno(1,2,3-cd)pyrene	1.27	0.17	mg/Kg wet	1.67		76.0	40-140	25.1	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	20.1	30	
Naphthalene	1.01	0.17	mg/Kg wet	1.67		60.5	40-140	18.8	30	
Phenanthrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	18.7	30	
Pyrene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	23.2	30	
Surrogate: Nitrobenzene-d5	*2.33*		mg/Kg wet	3.33		70.0	30-130			
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/Kg wet	3.33		69.9	30-130			
Surrogate: p-Terphenyl-d14	*2.60*		mg/Kg wet	3.33		78.0	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 B182503 - SW-846 3540C										
Blank (B182503-BLK1)				Prepared: 07/25/17 Analyzed: 07/26/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.160*		mg/Kg wet	0.200		80.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg wet	0.200		89.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.163*		mg/Kg wet	0.200		81.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.172*		mg/Kg wet	0.200		86.2	30-150			
LCS (B182503-BS1)				Prepared: 07/25/17 Analyzed: 07/26/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		78.6	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		79.5	40-140			
Aroclor-1260	0.14	0.020	mg/Kg wet	0.200		68.2	40-140			
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		72.4	40-140			
Surrogate: Decachlorobiphenyl	*0.168*		mg/Kg wet	0.200		83.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.186*		mg/Kg wet	0.200		93.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.169*		mg/Kg wet	0.200		84.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.178*		mg/Kg wet	0.200		89.1	30-150			
LCS Dup (B182503-BSD1)				Prepared: 07/25/17 Analyzed: 07/26/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.6	40-140	7.38	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		85.9	40-140	7.78	30	
Aroclor-1260	0.14	0.020	mg/Kg wet	0.200		72.2	40-140	5.72	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		77.0	40-140	6.14	30	
Surrogate: Decachlorobiphenyl	*0.169*		mg/Kg wet	0.200		84.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.186*		mg/Kg wet	0.200		93.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		86.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.180*		mg/Kg wet	0.200		90.2	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 B182503 - SW-846 3540C										
Matrix Spike (B182503-MS1)		**Source: 17G0774-04**		Prepared: 07/25/17 Analyzed: 07/28/17						
Aroclor-1016	0.23	0.10	mg/Kg dry	0.209	ND	112	40-140			
Aroclor-1016 [2C]	0.24	0.10	mg/Kg dry	0.209	ND	116	40-140			
Aroclor-1260	0.22	0.10	mg/Kg dry	0.209	ND	106	40-140			
Aroclor-1260 [2C]	0.23	0.10	mg/Kg dry	0.209	ND	110	40-140			
Surrogate: Decachlorobiphenyl	*0.213*		mg/Kg dry	0.209		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.217*		mg/Kg dry	0.209		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.205*		mg/Kg dry	0.209		98.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.191*		mg/Kg dry	0.209		91.2	30-150			
Matrix Spike Dup (B182503-MSD1)		**Source: 17G0774-04**		Prepared: 07/25/17 Analyzed: 07/28/17						
Aroclor-1016	0.24	0.10	mg/Kg dry	0.209	ND	113	40-140	1.35	50	
Aroclor-1016 [2C]	0.25	0.10	mg/Kg dry	0.209	ND	121	40-140	4.95	50	
Aroclor-1260	0.23	0.10	mg/Kg dry	0.209	ND	110	40-140	4.01	50	
Aroclor-1260 [2C]	0.24	0.10	mg/Kg dry	0.209	ND	115	40-140	4.92	50	
Surrogate: Decachlorobiphenyl	*0.216*		mg/Kg dry	0.209		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.222*		mg/Kg dry	0.209		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.206*		mg/Kg dry	0.209		98.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.194*		mg/Kg dry	0.209		92.6	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 B182589 - SW-846 3546										
Blank (B182589-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.17*		mg/Kg wet	3.33		95.1	50-150			
LCS (B182589-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	32.7	10	mg/Kg wet	33.3		98.1	60-120			
Surrogate: o-Terphenyl	*2.50*		mg/Kg wet	3.33		75.1	50-150			
LCS Dup (B182589-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	29.7	10	mg/Kg wet	33.3		89.0	60-120	9.67	30	
Surrogate: o-Terphenyl	*2.58*		mg/Kg wet	3.33		77.4	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 B182194 - SW-846 3050B										
Blank (B182194-BLK1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B182194-BS1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	51.6	5.0	mg/Kg wet	57.0		90.5	77.8-122.1			
LCS Dup (B182194-BSD1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	51.2	4.9	mg/Kg wet	57.0		89.9	77.8-122.1	0.723	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 B182552 - % Solids										
Duplicate (B182552-DUP1)		**Source: 17G0774-01**		Prepared: 07/26/17 Analyzed: 07/27/17						
% Solids	96.1		% Wt		96.6			0.519	20	
Duplicate (B182552-DUP2)		**Source: 17G0774-04**		Prepared: 07/26/17 Analyzed: 07/27/17						
% Solids	95.2		% Wt		95.7			0.524	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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

1760774

con-test® ANALYTICAL LABORATORY

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

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic						# of Containers
	WS-AOC12W-SO-47-1	7/19/17	8:55		X	S	U	X											
	WS-AOC12W-SO-47-2	7/19/17	8:57					X											
	WS-AOC12W-SO-47-3		8:59					X											
	WS-AOC12W-SO-54-1 (MS-MSD)		9:24					X											
	WS-AOC12W-SO-54-2		9:26					X											
	WS-AOC12W-SO-54-3		9:28					X											
	WS-AOC12W-SO-58-1A		9:38					X											
	WS-AOC12W-SO-58-1B		9:39								X		X						
	WS-AOC12W-SO-58-2		9:40					X											
	WS-AOC12W-SO-58-3		9:41					X											

Comments:
WS-AOC12W-SO-54-1 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

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

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Relinquished by: (signature)	Date/Time:
[signature]	7/19/17 1530
Received by: (signature) Tom Mace	Date/Time: 7/19/17 1530
Relinquished by: (signature) Tom Mace	Date/Time: 7/19/17 1740
Received by: (signature)	Date/Time: 7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

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

NELAC and AIHA-LAP, LLC Accredited

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

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Doc # 381 Rev 0 5 8 2015

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Fax: 413-525-6405
Email: info@contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
	WS-AOC12W-SO-64-1A	7/19/17	10:09		X	S	U	X								
	WS-AOC12W-SO-64-1B		10:11								X		X			
	WS-AOC12W-SO-64-2		10:13					X								
	WS-AOC12W-SO-64-3		10:14					X								
	WS-AOC12W-SO-67-1		10:16					X								
	WS-AOC12W-SO-67-2		10:17					X								
	WS-AOC12W-SO-67-3		10:18					X								
	WS-AOC12W-SO-49-1A		10:41					X								
	WS-AOC12W-SO-49-1B		10:42							X	X		X			
	WS-AOC12W-SO-49-2		10:43					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time:
[signature]	7/19/17 1530
Received by: (signature) Tom Mauri	Date/Time: 7/19/17 1530
Relinquished by: (signature) Tom Mauri	Date/Time: 7/19/17 1740
Received by: (signature) [signature]	Date/Time: 7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
GW RES DEC
Other

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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P: 413-525-2332
F: 413-525-6405
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Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By JM Date 7/19/17 Time 1740

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____
By Gun # 2 Actual Temp - 3.4, 2.9, 4.1

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

Was Custody Seal Intact? N/A Were Samples Tampered with? F

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? N/A Who was notified? ____

Are there Rushes? N/A Who was notified? ____

Are there Short Holds? N/A Who was notified? ____

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? T

Proper Media/Containers Used? T Is splitting samples required? N/A

Were trip blanks received? N/A On COC? N/A

Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-	~~20~~	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	22
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

D:\HPCHEM\1\DATA\A080217\A0802052.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/2/17
Data File Name	A0802052.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	389057	424164	-8
c - 10	1.43	379037	424164	-11
c - 12	2.16	405194	424164	-4
c - 14	2.84	416545	424164	-2
c - 16	3.44	430703	424164	2
c - 18	4.02	429130	424164	1
o-Terphenyl	4.31	496417	424164	
c - 20	4.63	438816	424164	3
c - 22	5.15	447046	424164	5
c - 24	5.60	417947	424164	-1
c - 26	6.00	445598	424164	5
c - 28	6.36	441275	424164	4
c - 30	6.69	439402	424164	4
c - 32	7.00	429465	424164	1
c - 34	7.30	427962	424164	1
c - 36	7.58	425281	424164	0

* One compound allowed %D <= 50%

Samples

17G0912-08
17G0932-01
17G0932-02
17G0932-05
17G0911-14
17G0911-15
17G0932-03

D:\HPCHEM\1\DATA\A080217\A0802086.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/2/17
Data File Name	A0802086.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	384056	421351	-9
c - 10	1.43	374286	421351	-11
c - 12	2.17	396009	421351	-6
c - 14	2.84	413660	421351	-2
c - 16	3.44	426881	421351	1
c - 18	4.02	425337	421351	1
o-Terphenyl	4.31	491103	421351	
c - 20	4.63	435935	421351	3
c - 22	5.15	444516	421351	5
c - 24	5.60	418309	421351	-1
c - 26	6.00	444009	421351	5
c - 28	6.36	440050	421351	4
c - 30	6.69	439368	421351	4
c - 32	7.00	428360	421351	2
c - 34	7.30	426707	421351	1
c - 36	7.58	422783	421351	0

* One compound allowed %D <= 50%

Samples

17G1043-01
17G1043-02
17G1043-03
17G1077-07
17G0774-12@10X
17G0774-18@10X
17G0776-17@20X
17G0867-05
17G0774-18
17G0911-15@5X
17G0911-20@5X
17G0911-13@5X
17G0911-17@5X

D:\HPCHEM\1\DATA\A080217\A0802142.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/3/17
Data File Name	A0802142.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	452530	495049	-9
c - 10	1.42	444292	495049	-10
c - 12	2.16	467152	495049	-6
c - 14	2.83	487205	495049	-2
c - 16	3.43	501083	495049	1
c - 18	4.02	498005	495049	1
o-Terphenyl	4.30	578868	495049	
c - 20	4.63	510389	495049	3
c - 22	5.15	520281	495049	5
c - 24	5.60	489573	495049	-1
c - 26	5.99	520841	495049	5
c - 28	6.36	515925	495049	4
c - 30	6.69	514552	495049	4
c - 32	7.00	503320	495049	2
c - 34	7.29	502383	495049	1
c - 36	7.58	498204	495049	1

* One compound allowed %D <= 50%

Samples

17G1045-01
17G1045-03
17G1045-04

D:\HPCHEM\1\DATA\A080217.SEC\A0802053.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/2/17
Data File Name	A0802053.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	359815	380451	-5
c - 10	1.50	352547	380451	-7
c - 12	2.22	374391	380451	-2
c - 14	2.89	384612	380451	1
c - 16	3.48	394076	380451	4
c - 18	4.05	388606	380451	2
o-Terphenyl	4.36	444826	380451	
c - 20	4.67	393700	380451	3
c - 22	5.18	398363	380451	5
c - 24	5.62	371023	380451	-2
c - 26	6.01	389982	380451	3
c - 28	6.37	384491	380451	1
c - 30	6.70	383606	380451	1
c - 32	7.01	375705	380451	-1
c - 34	7.30	377889	380451	-1
c - 36	7.58	377960	380451	-1

* One compound allowed %D <= 50%

Samples

17G0683-12@20X
17G0774-04@10X

D:\HPCHEM\1\DATA\A080217.SEC\A080293.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/2/17
Data File Name	A080293.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	363192	388257	-6
c - 10	1.49	353450	388257	-9
c - 12	2.23	378033	388257	-3
c - 14	2.89	391251	388257	1
c - 16	3.48	401490	388257	3
c - 18	4.05	397496	388257	2
o-Terphenyl	4.36	454898	388257	
c - 20	4.66	404130	388257	4
c - 22	5.18	408473	388257	5
c - 24	5.62	379630	388257	-2
c - 26	6.01	399141	388257	3
c - 28	6.37	392867	388257	1
c - 30	6.70	393552	388257	1
c - 32	7.01	386366	388257	0
c - 34	7.30	387490	388257	0
c - 36	7.58	387297	388257	0

* One compound allowed %D </= 50%

Samples

17G1059-01@5X
17G0865-14@5X
17G0866-14@5X
17G1077-03
17G1079-06
17G1048-01@50X
17G0911-16@20X
17G0913-08@50X

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: 17G0774

Laboratory Sample ID(s):

17G0774-01 thru 17G0774-20

Sample Date(s):

07/19/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A, SW-846 8270D

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

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

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

Authorized Signature: Tod Kopyscinski **Position:** **Laboratory Director**

Printed Name: **Tod E. Kopyscinski** **Date:** **08/03/17**

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

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

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

August 3, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G0775

Enclosed are results of analyses for samples received by the laboratory on July 19, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

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

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

REPORT DATE: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0775

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-SO-49-3	17G0775-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-71-1	17G0775-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-71-2	17G0775-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-71-3	17G0775-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-52-1	17G0775-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-52-2	17G0775-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-52-3	17G0775-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-56-1A	17G0775-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-56-1B	17G0775-09	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC12W-SO-56-2	17G0775-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-56-3	17G0775-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-75-2A	17G0775-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-75-2B	17G0775-13	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 8270D	
WS-AOC12W-SO-75-1	17G0775-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-75-3	17G0775-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-75-4	17G0775-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-60-1A	17G0775-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-60-1B	17G0775-18	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 8270D	

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

REPORT DATE: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0775

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-SO-60-2	17G0775-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-60-3	17G0775-20	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

For method 6010, only As was requested and reported.

For method 8270, only PAHs were requested and reported.

CTDEP ETPH

Qualifications:

MS-12

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

Analyte & Samples(s) Qualified:

CT ETPH

17G0775-18[WS-AOC12W-SO-60-1B], B182589-MS1, B182589-MSD1

SW-846 6010C-D

Qualifications:

R-02

Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

Analyte & Samples(s) Qualified:

Arsenic

17G0775-18[WS-AOC12W-SO-60-1B], B182194-DUP1

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

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

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

Lisa A. Worthington
Project Manager

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-49-3 Sampled: 7/19/2017 10:44

Sample ID: 17G0775-01

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	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:05	TG
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:05	TG
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:05	TG
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:05	TG
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:05	TG
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:05	TG
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:05	TG
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:05	TG
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:05	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.6	30-150		7/28/17 15:05
Decachlorobiphenyl [2]	80.8	30-150		7/28/17 15:05
Tetrachloro-m-xylene [1]	82.8	30-150		7/28/17 15:05
Tetrachloro-m-xylene [2]	83.5	30-150		7/28/17 15:05

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-49-3 Sampled: 7/19/2017 10:44

Sample ID: 17G0775-01

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	72.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-71-1 Sampled: 7/19/2017 10:56

Sample ID: 17G0775-02

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	5		SW-846 8082A	7/25/17	7/28/17 15:23	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:23	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:23	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:23	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:23	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:23	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:23	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:23	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:23	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	51.0	30-150		7/28/17 15:23
Decachlorobiphenyl [2]	56.4	30-150		7/28/17 15:23
Tetrachloro-m-xylene [1]	58.0	30-150		7/28/17 15:23
Tetrachloro-m-xylene [2]	58.6	30-150		7/28/17 15:23

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-71-1 Sampled: 7/19/2017 10:56

Sample ID: 17G0775-02

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	94.2		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-71-2 Sampled: 7/19/2017 10:58

Sample ID: 17G0775-03

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	5		SW-846 8082A	7/25/17	7/28/17 15:41	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:41	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:41	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:41	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:41	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:41	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:41	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:41	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:41	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.1	30-150		7/28/17 15:41
Decachlorobiphenyl [2]	85.3	30-150		7/28/17 15:41
Tetrachloro-m-xylene [1]	83.6	30-150		7/28/17 15:41
Tetrachloro-m-xylene [2]	85.8	30-150		7/28/17 15:41

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-71-2 Sampled: 7/19/2017 10:58

Sample ID: 17G0775-03

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	78.4		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-71-3 Sampled: 7/19/2017 11:00

Sample ID: 17G0775-04

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	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:59	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:59	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:59	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:59	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:59	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:59	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:59	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:59	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:59	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.6	30-150		7/28/17 15:59
Decachlorobiphenyl [2]	87.8	30-150		7/28/17 15:59
Tetrachloro-m-xylene [1]	85.5	30-150		7/28/17 15:59
Tetrachloro-m-xylene [2]	88.2	30-150		7/28/17 15:59

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-71-3 Sampled: 7/19/2017 11:00

Sample ID: 17G0775-04

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	74.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-52-1 Sampled: 7/19/2017 11:01

Sample ID: 17G0775-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:16	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:16	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:16	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:16	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:16	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:16	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:16	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:16	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:16	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.5	30-150		7/28/17 16:16
Decachlorobiphenyl [2]	87.6	30-150		7/28/17 16:16
Tetrachloro-m-xylene [1]	83.0	30-150		7/28/17 16:16
Tetrachloro-m-xylene [2]	84.4	30-150		7/28/17 16:16

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-52-1 Sampled: 7/19/2017 11:01

Sample ID: 17G0775-05

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	93.1		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-52-2 Sampled: 7/19/2017 11:02

Sample ID: 17G0775-06

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	5		SW-846 8082A	7/25/17	7/28/17 16:34	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:34	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:34	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:34	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:34	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:34	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:34	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:34	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:34	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.3	30-150		7/28/17 16:34
Decachlorobiphenyl [2]	84.5	30-150		7/28/17 16:34
Tetrachloro-m-xylene [1]	83.4	30-150		7/28/17 16:34
Tetrachloro-m-xylene [2]	82.8	30-150		7/28/17 16:34

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-52-2 Sampled: 7/19/2017 11:02

Sample ID: 17G0775-06

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	88.1		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-52-3 Sampled: 7/19/2017 11:03

Sample ID: 17G0775-07

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	5		SW-846 8082A	7/25/17	7/28/17 16:52	TG
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:52	TG
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:52	TG
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:52	TG
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:52	TG
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:52	TG
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:52	TG
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:52	TG
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:52	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.2	30-150		7/28/17 16:52
Decachlorobiphenyl [2]	71.7	30-150		7/28/17 16:52
Tetrachloro-m-xylene [1]	69.1	30-150		7/28/17 16:52
Tetrachloro-m-xylene [2]	72.3	30-150		7/28/17 16:52

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-52-3 Sampled: 7/19/2017 11:03

Sample ID: 17G0775-07

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	71.0		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-56-1A Sampled: 7/19/2017 11:15

Sample ID: 17G0775-08

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	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:10	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:10	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:10	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:10	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:10	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:10	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:10	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:10	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:10	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.3	30-150		7/28/17 17:10
Decachlorobiphenyl [2]	94.7	30-150		7/28/17 17:10
Tetrachloro-m-xylene [1]	92.7	30-150		7/28/17 17:10
Tetrachloro-m-xylene [2]	94.8	30-150		7/28/17 17:10

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-56-1A Sampled: 7/19/2017 11:15

Sample ID: 17G0775-08

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	93.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-56-1B Sampled: 7/19/2017 11:16

Sample ID: 17G0775-09

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	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Chrysene	0.55	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Fluoranthene	0.22	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
2-Methylnaphthalene	0.36	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Phenanthrene	0.64	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Pyrene	0.27	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	49.1	30-130		7/28/17 22:26
2-Fluorobiphenyl	48.1	30-130		7/28/17 22:26
p-Terphenyl-d14	67.9	30-130		7/28/17 22:26

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-56-1B Sampled: 7/19/2017 11:16

Sample ID: 17G0775-09

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	88.6		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-56-2 Sampled: 7/19/2017 11:17

Sample ID: 17G0775-10

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	5		SW-846 8082A	7/25/17	7/28/17 17:28	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:28	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:28	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:28	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:28	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:28	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:28	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:28	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:28	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.6	30-150		7/28/17 17:28
Decachlorobiphenyl [2]	82.7	30-150		7/28/17 17:28
Tetrachloro-m-xylene [1]	77.3	30-150		7/28/17 17:28
Tetrachloro-m-xylene [2]	77.8	30-150		7/28/17 17:28

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-56-2 Sampled: 7/19/2017 11:17

Sample ID: 17G0775-10

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	91.1		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-56-3 Sampled: 7/19/2017 11:18

Sample ID: 17G0775-11

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	5		SW-846 8082A	7/25/17	7/28/17 17:45	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:45	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:45	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:45	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:45	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:45	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:45	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:45	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:45	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.0	30-150		7/28/17 17:45
Decachlorobiphenyl [2]	89.5	30-150		7/28/17 17:45
Tetrachloro-m-xylene [1]	85.0	30-150		7/28/17 17:45
Tetrachloro-m-xylene [2]	87.1	30-150		7/28/17 17:45

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-56-3 Sampled: 7/19/2017 11:18

Sample ID: 17G0775-11

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	74.4		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-2A Sampled: 7/19/2017 11:13

Sample ID: 17G0775-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:04	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:04	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:04	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:04	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:04	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:04	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:04	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:04	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:04	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.7	30-150		7/28/17 19:04
Decachlorobiphenyl [2]	81.6	30-150		7/28/17 19:04
Tetrachloro-m-xylene [1]	78.5	30-150		7/28/17 19:04
Tetrachloro-m-xylene [2]	79.4	30-150		7/28/17 19:04

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-2A Sampled: 7/19/2017 11:13

Sample ID: 17G0775-12

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	92.0		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-2B Sampled: 7/19/2017 11:15

Sample ID: 17G0775-13

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Chrysene	0.46	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
2-Methylnaphthalene	0.22	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Phenanthrene	0.41	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	37.4	30-130		7/28/17 21:39
2-Fluorobiphenyl	35.4	30-130		7/28/17 21:39
p-Terphenyl-d14	48.8	30-130		7/28/17 21:39

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-2B Sampled: 7/19/2017 11:15

Sample ID: 17G0775-13

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	7/26/17	7/27/17 19:17	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	57.6	50-150		7/27/17 19:17

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-2B Sampled: 7/19/2017 11:15

Sample ID: 17G0775-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	27	2.8	mg/Kg dry	1		SW-846 6010C-D	7/21/17	7/24/17 18:05	QNW

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-2B Sampled: 7/19/2017 11:15

Sample ID: 17G0775-13

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	86.4		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-1 Sampled: 7/19/2017 11:11

Sample ID: 17G0775-14

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	5		SW-846 8082A	7/25/17	7/28/17 19:22	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:22	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:22	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:22	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:22	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:22	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:22	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:22	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:22	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.3	30-150		7/28/17 19:22
Decachlorobiphenyl [2]	85.6	30-150		7/28/17 19:22
Tetrachloro-m-xylene [1]	83.3	30-150		7/28/17 19:22
Tetrachloro-m-xylene [2]	85.4	30-150		7/28/17 19:22

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-1 Sampled: 7/19/2017 11:11

Sample ID: 17G0775-14

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	96.1		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-3 Sampled: 7/19/2017 11:17

Sample ID: 17G0775-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:40	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:40	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:40	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:40	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:40	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:40	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:40	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:40	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:40	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.6	30-150		7/28/17 19:40
Decachlorobiphenyl [2]	92.0	30-150		7/28/17 19:40
Tetrachloro-m-xylene [1]	81.9	30-150		7/28/17 19:40
Tetrachloro-m-xylene [2]	83.4	30-150		7/28/17 19:40

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-3 Sampled: 7/19/2017 11:17

Sample ID: 17G0775-15

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	81.8		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-4 Sampled: 7/19/2017 11:19

Sample ID: 17G0775-16

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	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:57	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:57	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:57	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:57	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:57	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:57	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:57	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:57	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:57	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.0	30-150		7/28/17 19:57
Decachlorobiphenyl [2]	82.6	30-150		7/28/17 19:57
Tetrachloro-m-xylene [1]	83.3	30-150		7/28/17 19:57
Tetrachloro-m-xylene [2]	86.0	30-150		7/28/17 19:57

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-4 Sampled: 7/19/2017 11:19

Sample ID: 17G0775-16

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	78.8		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-60-1A Sampled: 7/19/2017 11:17

Sample ID: 17G0775-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:15	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:15	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:15	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:15	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:15	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:15	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:15	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:15	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.2	30-150		7/28/17 20:15
Decachlorobiphenyl [2]	88.9	30-150		7/28/17 20:15
Tetrachloro-m-xylene [1]	85.8	30-150		7/28/17 20:15
Tetrachloro-m-xylene [2]	87.7	30-150		7/28/17 20:15

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-60-1A Sampled: 7/19/2017 11:17

Sample ID: 17G0775-17

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	93.3		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-60-1B Sampled: 7/19/2017 11:18

Sample ID: 17G0775-18

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	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Benzo(b)fluoranthene	0.24	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Chrysene	0.38	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Fluoranthene	0.29	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
2-Methylnaphthalene	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Phenanthrene	0.49	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Pyrene	0.31	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	44.2	30-130		7/27/17 20:14
2-Fluorobiphenyl	39.7	30-130		7/27/17 20:14
p-Terphenyl-d14	48.2	30-130		7/27/17 20:14

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-60-1B Sampled: 7/19/2017 11:18

Sample ID: 17G0775-18

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	MS-12	CTDEP ETPH	7/26/17	8/2/17 22:42	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	90.8	50-150		8/2/17 22:42

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-60-1B Sampled: 7/19/2017 11:18

Sample ID: 17G0775-18

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	17	2.7	mg/Kg dry	1	R-02	SW-846 6010C-D	7/21/17	7/24/17 18:05	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-60-1B Sampled: 7/19/2017 11:18

Sample ID: 17G0775-18

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	88.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-60-2 Sampled: 7/19/2017 11:19

Sample ID: 17G0775-19

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	5		SW-846 8082A	7/25/17	7/28/17 20:33	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:33	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:33	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:33	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:33	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:33	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:33	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:33	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:33	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.1	30-150		7/28/17 20:33
Decachlorobiphenyl [2]	83.8	30-150		7/28/17 20:33
Tetrachloro-m-xylene [1]	79.6	30-150		7/28/17 20:33
Tetrachloro-m-xylene [2]	80.1	30-150		7/28/17 20:33

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-60-2 Sampled: 7/19/2017 11:19

Sample ID: 17G0775-19

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	92.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-60-3 Sampled: 7/19/2017 11:20

Sample ID: 17G0775-20

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	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:51	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:51	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:51	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:51	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:51	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:51	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:51	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:51	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.8	30-150		7/28/17 20:51
Decachlorobiphenyl [2]	85.9	30-150		7/28/17 20:51
Tetrachloro-m-xylene [1]	83.2	30-150		7/28/17 20:51
Tetrachloro-m-xylene [2]	84.6	30-150		7/28/17 20:51

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-60-3 Sampled: 7/19/2017 11:20

Sample ID: 17G0775-20

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	78.6		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0775-13 [WS-AOC12W-SO-75-2B]	B182589	30.0	1.00	07/26/17
17G0775-18 [WS-AOC12W-SO-60-1B]	B182589	30.0	1.00	07/26/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0775-01 [WS-AOC12W-SO-49-3]	B182549	07/26/17
17G0775-02 [WS-AOC12W-SO-71-1]	B182549	07/26/17
17G0775-03 [WS-AOC12W-SO-71-2]	B182549	07/26/17
17G0775-04 [WS-AOC12W-SO-71-3]	B182549	07/26/17
17G0775-05 [WS-AOC12W-SO-52-1]	B182549	07/26/17
17G0775-06 [WS-AOC12W-SO-52-2]	B182549	07/26/17
17G0775-07 [WS-AOC12W-SO-52-3]	B182549	07/26/17
17G0775-08 [WS-AOC12W-SO-56-1A]	B182549	07/26/17
17G0775-09 [WS-AOC12W-SO-56-1B]	B182549	07/26/17
17G0775-10 [WS-AOC12W-SO-56-2]	B182549	07/26/17
17G0775-11 [WS-AOC12W-SO-56-3]	B182549	07/26/17
17G0775-12 [WS-AOC12W-SO-75-2A]	B182549	07/26/17
17G0775-13 [WS-AOC12W-SO-75-2B]	B182549	07/26/17
17G0775-14 [WS-AOC12W-SO-75-1]	B182549	07/26/17
17G0775-15 [WS-AOC12W-SO-75-3]	B182549	07/26/17
17G0775-16 [WS-AOC12W-SO-75-4]	B182549	07/26/17
17G0775-17 [WS-AOC12W-SO-60-1A]	B182549	07/26/17
17G0775-18 [WS-AOC12W-SO-60-1B]	B182549	07/26/17
17G0775-19 [WS-AOC12W-SO-60-2]	B182549	07/26/17
17G0775-20 [WS-AOC12W-SO-60-3]	B182549	07/26/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0775-13 [WS-AOC12W-SO-75-2B]	B182194	1.03	50.0	07/21/17
17G0775-18 [WS-AOC12W-SO-60-1B]	B182194	1.06	50.0	07/21/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0775-01 [WS-AOC12W-SO-49-3]	B182504	10.0	10.0	07/25/17
17G0775-02 [WS-AOC12W-SO-71-1]	B182504	10.0	10.0	07/25/17
17G0775-03 [WS-AOC12W-SO-71-2]	B182504	10.0	10.0	07/25/17
17G0775-04 [WS-AOC12W-SO-71-3]	B182504	10.0	10.0	07/25/17
17G0775-05 [WS-AOC12W-SO-52-1]	B182504	10.0	10.0	07/25/17
17G0775-06 [WS-AOC12W-SO-52-2]	B182504	10.0	10.0	07/25/17
17G0775-07 [WS-AOC12W-SO-52-3]	B182504	10.0	10.0	07/25/17
17G0775-08 [WS-AOC12W-SO-56-1A]	B182504	10.0	10.0	07/25/17
17G0775-10 [WS-AOC12W-SO-56-2]	B182504	10.0	10.0	07/25/17
17G0775-11 [WS-AOC12W-SO-56-3]	B182504	10.0	10.0	07/25/17
17G0775-12 [WS-AOC12W-SO-75-2A]	B182504	10.0	10.0	07/25/17
17G0775-14 [WS-AOC12W-SO-75-1]	B182504	10.0	10.0	07/25/17
17G0775-15 [WS-AOC12W-SO-75-3]	B182504	10.0	10.0	07/25/17
17G0775-16 [WS-AOC12W-SO-75-4]	B182504	10.0	10.0	07/25/17
17G0775-17 [WS-AOC12W-SO-60-1A]	B182504	10.0	10.0	07/25/17

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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
17G0775-19 [WS-AOC12W-SO-60-2]	B182504	10.0	10.0	07/25/17
17G0775-20 [WS-AOC12W-SO-60-3]	B182504	10.0	10.0	07/25/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0775-09 [WS-AOC12W-SO-56-1B]	B182604	30.0	1.00	07/26/17
17G0775-13 [WS-AOC12W-SO-75-2B]	B182604	30.0	1.00	07/26/17
17G0775-18 [WS-AOC12W-SO-60-1B]	B182604	30.0	1.00	07/26/17

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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 B182604 - SW-846 3546										
Blank (B182604-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.42*		mg/Kg wet	3.33		72.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.72*		mg/Kg wet	3.33		81.5	30-130			
LCS (B182604-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	0.860	0.17	mg/Kg wet	1.67		51.6	40-140			
Acenaphthylene	0.832	0.17	mg/Kg wet	1.67		49.9	40-140			
Anthracene	0.914	0.17	mg/Kg wet	1.67		54.8	40-140			
Benzo(a)anthracene	0.935	0.17	mg/Kg wet	1.67		56.1	40-140			
Benzo(a)pyrene	0.940	0.17	mg/Kg wet	1.67		56.4	40-140			
Benzo(b)fluoranthene	0.852	0.17	mg/Kg wet	1.67		51.1	40-140			
Benzo(g,h,i)perylene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140			
Benzo(k)fluoranthene	0.863	0.17	mg/Kg wet	1.67		51.8	40-140			
Chrysene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Dibenz(a,h)anthracene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140			
Fluoranthene	0.889	0.17	mg/Kg wet	1.67		53.3	40-140			
Fluorene	0.876	0.17	mg/Kg wet	1.67		52.6	40-140			
Indeno(1,2,3-cd)pyrene	0.984	0.17	mg/Kg wet	1.67		59.1	40-140			
2-Methylnaphthalene	0.851	0.17	mg/Kg wet	1.67		51.0	40-140			
Naphthalene	0.836	0.17	mg/Kg wet	1.67		50.1	40-140			
Phenanthrene	0.915	0.17	mg/Kg wet	1.67		54.9	40-140			
Pyrene	0.887	0.17	mg/Kg wet	1.67		53.2	40-140			
Surrogate: Nitrobenzene-d5	*1.92*		mg/Kg wet	3.33		57.6	30-130			
Surrogate: 2-Fluorobiphenyl	*1.93*		mg/Kg wet	3.33		57.9	30-130			
Surrogate: p-Terphenyl-d14	*2.13*		mg/Kg wet	3.33		63.8	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 B182604 - SW-846 3546										
LCS Dup (B182604-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	19.3	30	
Acenaphthylene	1.02	0.17	mg/Kg wet	1.67		61.1	40-140	20.0	30	
Anthracene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140	20.1	30	
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	19.2	30	
Benzo(a)pyrene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	17.1	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	17.2	30	
Benzo(g,h,i)perylene	1.35	0.17	mg/Kg wet	1.67		81.1	40-140	20.0	30	
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140	18.4	30	
Chrysene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140	17.4	30	
Dibenz(a,h)anthracene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140	20.4	30	
Fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140	22.5	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.6	40-140	19.0	30	
Indeno(1,2,3-cd)pyrene	1.27	0.17	mg/Kg wet	1.67		76.0	40-140	25.1	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	20.1	30	
Naphthalene	1.01	0.17	mg/Kg wet	1.67		60.5	40-140	18.8	30	
Phenanthrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	18.7	30	
Pyrene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	23.2	30	
Surrogate: Nitrobenzene-d5	*2.33*		mg/Kg wet	3.33		70.0	30-130			
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/Kg wet	3.33		69.9	30-130			
Surrogate: p-Terphenyl-d14	*2.60*		mg/Kg wet	3.33		78.0	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 B182504 - SW-846 3540C										
Blank (B182504-BLK1)				Prepared: 07/25/17 Analyzed: 07/27/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.180*		mg/Kg wet	0.200		90.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.168*		mg/Kg wet	0.200		83.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.176*		mg/Kg wet	0.200		88.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.165*		mg/Kg wet	0.200		82.4	30-150			
LCS (B182504-BS1)				Prepared: 07/25/17 Analyzed: 07/27/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.0	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		85.4	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.4	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.0	40-140			
Surrogate: Decachlorobiphenyl	*0.178*		mg/Kg wet	0.200		88.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.165*		mg/Kg wet	0.200		82.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.173*		mg/Kg wet	0.200		86.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.161*		mg/Kg wet	0.200		80.4	30-150			
LCS Dup (B182504-BSD1)				Prepared: 07/25/17 Analyzed: 07/27/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.9	40-140	1.07	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.2	40-140	3.22	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		81.3	40-140	2.40	30	
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		72.2	40-140	1.06	30	
Surrogate: Decachlorobiphenyl	*0.177*		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.165*		mg/Kg wet	0.200		82.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		85.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.160*		mg/Kg wet	0.200		80.1	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182504 - SW-846 3540C										
Matrix Spike (B182504-MS1)		**Source: 17G0775-17**		Prepared: 07/25/17 Analyzed: 07/28/17						
Aroclor-1016	0.18	0.11	mg/Kg dry	0.214	ND	83.7	40-140			
Aroclor-1016 [2C]	0.19	0.11	mg/Kg dry	0.214	ND	89.1	40-140			
Aroclor-1260	0.15	0.11	mg/Kg dry	0.214	ND	71.5	40-140			
Aroclor-1260 [2C]	0.17	0.11	mg/Kg dry	0.214	ND	79.1	40-140			
Surrogate: Decachlorobiphenyl	*0.165*		mg/Kg dry	0.214		76.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg dry	0.214		83.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.173*		mg/Kg dry	0.214		80.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.178*		mg/Kg dry	0.214		83.0	30-150			
Matrix Spike Dup (B182504-MSD1)		**Source: 17G0775-17**		Prepared: 07/25/17 Analyzed: 07/28/17						
Aroclor-1016	0.19	0.11	mg/Kg dry	0.214	ND	88.5	40-140	5.56	50	
Aroclor-1016 [2C]	0.19	0.11	mg/Kg dry	0.214	ND	89.8	40-140	0.755	50	
Aroclor-1260	0.16	0.11	mg/Kg dry	0.214	ND	73.0	40-140	2.08	50	
Aroclor-1260 [2C]	0.17	0.11	mg/Kg dry	0.214	ND	80.6	40-140	1.91	50	
Surrogate: Decachlorobiphenyl	*0.163*		mg/Kg dry	0.214		76.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg dry	0.214		83.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.171*		mg/Kg dry	0.214		79.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg dry	0.214		82.5	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 B182589 - SW-846 3546											
Blank (B182589-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17							
CT ETPH	ND	10	mg/Kg wet								
Surrogate: o-Terphenyl	*3.17*		mg/Kg wet	3.33		95.1		50-150			
LCS (B182589-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17							
CT ETPH	32.7	10	mg/Kg wet	33.3		98.1		60-120			
Surrogate: o-Terphenyl	*2.50*		mg/Kg wet	3.33		75.1		50-150			
LCS Dup (B182589-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17							
CT ETPH	29.7	10	mg/Kg wet	33.3		89.0		60-120	9.67	30	
Surrogate: o-Terphenyl	*2.58*		mg/Kg wet	3.33		77.4		50-150			
Matrix Spike (B182589-MS1)	**Source: 17G0775-18**			Prepared: 07/26/17 Analyzed: 08/02/17							
CT ETPH	311	110	mg/Kg dry	37.6	250	**161**	*	50-150			MS-12
Surrogate: o-Terphenyl	*4.15*		mg/Kg dry	3.76		110		50-150			
Matrix Spike Dup (B182589-MSD1)	**Source: 17G0775-18**			Prepared: 07/26/17 Analyzed: 08/02/17							
CT ETPH	341	110	mg/Kg dry	37.6	250	**241**	*	50-150	9.20	30	MS-12
Surrogate: o-Terphenyl	*4.17*		mg/Kg dry	3.76		111		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 B182194 - SW-846 3050B											
Blank (B182194-BLK1)				Prepared: 07/21/17	Analyzed: 07/24/17						
Arsenic	ND	2.5	mg/Kg wet								
LCS (B182194-BS1)				Prepared: 07/21/17	Analyzed: 07/24/17						
Arsenic	51.6	5.0	mg/Kg wet	57.0		90.5	77.8-122.1				
LCS Dup (B182194-BSD1)				Prepared: 07/21/17	Analyzed: 07/24/17						
Arsenic	51.2	4.9	mg/Kg wet	57.0		89.9	77.8-122.1	0.723		30	
Duplicate (B182194-DUP1)	**Source: 17G0775-18**			Prepared: 07/21/17	Analyzed: 07/24/17						
Arsenic	11.7	2.6	mg/Kg dry		17.2			**38.0**	*	35	R-02
Matrix Spike (B182194-MS1)	**Source: 17G0775-18**			Prepared: 07/21/17	Analyzed: 07/24/17						
Arsenic	36.7	2.6	mg/Kg dry	25.9	17.2	75.3	75-125				
Matrix Spike Dup (B182194-MSD1)	**Source: 17G0775-18**			Prepared: 07/21/17	Analyzed: 07/25/17						
Arsenic	37.1	2.6	mg/Kg dry	25.9	17.2	77.0	75-125	1.21		35	

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182549 - % Solids										
Duplicate (B182549-DUP1)		**Source: 17G0775-17**		Prepared: 07/26/17 Analyzed: 07/27/17						
% Solids	93.5		% Wt		93.3			0.214	20	
Duplicate (B182549-DUP2)		**Source: 17G0775-18**		Prepared: 07/26/17 Analyzed: 07/27/17						
% Solids	91.0		% Wt		88.7			2.56	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182504-BS1 Date(s) Analyzed: 07/27/2017 07/27/2017

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.17	5.7
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.15	6.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182504-BSD1 Date(s) Analyzed: 07/27/2017 07/27/2017

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.18	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.14	13.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182504-MS1 Date(s) Analyzed: 07/28/2017 07/28/2017

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.19	5.4
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.17	12.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182504-MSD1 Date(s) Analyzed: 07/28/2017 07/28/2017

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.19	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.17	6.1

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-12	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
R-02	Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

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

1760775

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12W-SO-49-3	7/19/17	10:44		X	S	U	X								
2	WS-AOC12W-SO-71-1		10:56					X								
3	WS-AOC12W-SO-71-2		10:58					X								
4	WS-AOC12W-SO-71-3		11:00					X								
5	WS-AOC12W-SO-52-1		11:01					X								
6	WS-AOC12W-SO-52-2		11:02					X								
7	WS-AOC12W-SO-52-3		11:03					X								
8	WS-AOC12W-SO-56-1A		11:15					X								
9	WS-AOC12W-SO-56-1B		11:16							X						
10	WS-AOC12W-SO-56-2		11:17					X								

Dissolved Metals Samples:
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples:
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time:
	7/19/17 1530
Received by: (signature) Tom Mair	Date/Time: 7/19/17 1530
Relinquished by: (signature) Tom Mair	Date/Time: 7/19/17 1740
Received by: (signature)	Date/Time: 7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

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

NELAC and AIHA-LAP, LLC Accredited

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

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12W-SO-56-3	7/19/17	11:18		X	S	U	X								
12	WS-AOC12W-SO-75-2A		11:13					X								
13	WS-AOC12W-SO-75-2B		11:15							X	X		X			
14	WS-AOC12W-SO-75-1		11:11					X								
15	WS-AOC12W-SO-75-3		11:17					X								
16	WS-AOC12W-SO-75-4		11:19					X								
17	WS-AOC12W-SO-60-1A (MS-MSD)		11:17					X								
18	WS-AOC12W-SO-60-1B (MS-MSD)		11:18							X	X		X			
19	WS-AOC12W-SO-60-2		11:19					X								
20	WS-AOC12W-SO-60-3		11:20					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:
WS-AOC12W-SO-60-1A (MS-MSD)
Please hold excess volumes for possible SPLP analyses.
WS-AOC12W-SO-60-1B (MS-MSD)

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

Relinquished by: (signature)	Date/Time:
[signature]	7/19/17 1530
Received by: (signature) Tom Maier	Date/Time: 7/19/17 1530
Relinquished by: (signature) Tom Maier	Date/Time: 7/19/17 1740
Received by: (signature) [signature]	Date/Time: 7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

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

NELAC and AIHA-LAP, LLC Accredited

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

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Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By JM Date 7/19/17 Time 1740

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 # 2 Actual Temp - 3.4, 2.9, 4.1
By Blank # ____ Actual Temp - ____

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

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-	~~20~~	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	24
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

D:\HPCHEM\1\DATA\A072717.SEC\A0727055.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	7/27/17
Data File Name	A0727055.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	429971	456453	-6
c - 10	1.49	436660	456453	-4
c - 12	2.22	455312	456453	0
c - 14	2.88	461259	456453	1
c - 16	3.48	469293	456453	3
c - 18	4.05	462720	456453	1
o-Terphenyl	4.36	532470	456453	
c - 20	4.66	470640	456453	3
c - 22	5.18	476652	456453	4
c - 24	5.62	443852	456453	-3
c - 26	6.01	468554	456453	3
c - 28	6.37	463829	456453	2
c - 30	6.70	457044	456453	0
c - 32	7.01	446255	456453	-2
c - 34	7.30	450835	456453	-1
c - 36	7.58	453922	456453	-1

* One compound allowed %D <= 50%

Samples

17G0775-13
17G0679-08@20X
17G0772-08@10X
17G0778-14@5X
17G0779-07@10X
17G0779-12@10X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

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

Project Number: 17G0775

Laboratory Sample ID(s):

17G0775-01 thru 17G0775-20

Sample Date(s):

07/19/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A, SW-846 8270D

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

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

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

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

Printed Name: **Lisa A. Worthington** **Date:** **08/03/17**

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

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

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

August 3, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G0776

Enclosed are results of analyses for samples received by the laboratory on July 19, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

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

REPORT DATE: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0776

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-SO-62-1	17G0776-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-62-2	17G0776-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-62-3	17G0776-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-78-1	17G0776-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-78-2	17G0776-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-78-3	17G0776-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-78-4	17G0776-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-81-1	17G0776-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-81-2	17G0776-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-81-3	17G0776-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-81-4	17G0776-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-66-1	17G0776-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-66-2	17G0776-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-66-3	17G0776-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-84-1	17G0776-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-84-2A	17G0776-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-84-2B	17G0776-17	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
WS-AOC12W-SO-84-3	17G0776-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-84-4	17G0776-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-69-1	17G0776-20	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

For method 6010, only As was requested and reported.

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

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-62-1 Sampled: 7/19/2017 11:44

Sample ID: 17G0776-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:10	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:10	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:10	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:10	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:10	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:10	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:10	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:10	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:10	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.1	30-150		7/29/17 12:10
Decachlorobiphenyl [2]	88.5	30-150		7/29/17 12:10
Tetrachloro-m-xylene [1]	83.6	30-150		7/29/17 12:10
Tetrachloro-m-xylene [2]	83.8	30-150		7/29/17 12:10

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-62-1 Sampled: 7/19/2017 11:44

Sample ID: 17G0776-01

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	94.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-62-2 Sampled: 7/19/2017 11:45

Sample ID: 17G0776-02

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	5		SW-846 8082A	7/26/17	7/29/17 12:28	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:28	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:28	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:28	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:28	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:28	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:28	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:28	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:28	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.7	30-150		7/29/17 12:28
Decachlorobiphenyl [2]	91.9	30-150		7/29/17 12:28
Tetrachloro-m-xylene [1]	85.9	30-150		7/29/17 12:28
Tetrachloro-m-xylene [2]	87.2	30-150		7/29/17 12:28

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-62-2 Sampled: 7/19/2017 11:45

Sample ID: 17G0776-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-62-3 Sampled: 7/19/2017 11:46

Sample ID: 17G0776-03

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	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:46	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:46	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:46	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:46	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:46	JMB
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:46	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:46	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:46	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:46	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	41.1	30-150		7/29/17 12:46
Decachlorobiphenyl [2]	46.2	30-150		7/29/17 12:46
Tetrachloro-m-xylene [1]	48.6	30-150		7/29/17 12:46
Tetrachloro-m-xylene [2]	50.0	30-150		7/29/17 12:46

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-62-3 Sampled: 7/19/2017 11:46

Sample ID: 17G0776-03

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	72.3		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-78-1 Sampled: 7/19/2017 11:40

Sample ID: 17G0776-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:03	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:03	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:03	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:03	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:03	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:03	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:03	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:03	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:03	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.2	30-150		7/29/17 13:03
Decachlorobiphenyl [2]	88.5	30-150		7/29/17 13:03
Tetrachloro-m-xylene [1]	81.4	30-150		7/29/17 13:03
Tetrachloro-m-xylene [2]	84.0	30-150		7/29/17 13:03

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-78-1 Sampled: 7/19/2017 11:40

Sample ID: 17G0776-04

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	98.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-78-2 Sampled: 7/19/2017 11:42

Sample ID: 17G0776-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:21	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:21	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:21	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:21	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:21	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:21	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:21	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:21	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:21	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.6	30-150		7/29/17 13:21
Decachlorobiphenyl [2]	87.6	30-150		7/29/17 13:21
Tetrachloro-m-xylene [1]	85.2	30-150		7/29/17 13:21
Tetrachloro-m-xylene [2]	86.4	30-150		7/29/17 13:21

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-78-2 Sampled: 7/19/2017 11:42

Sample ID: 17G0776-05

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	95.1		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-78-3 Sampled: 7/19/2017 11:44

Sample ID: 17G0776-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:39	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:39	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:39	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:39	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:39	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:39	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:39	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:39	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:39	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.6	30-150		7/29/17 13:39
Decachlorobiphenyl [2]	82.3	30-150		7/29/17 13:39
Tetrachloro-m-xylene [1]	83.8	30-150		7/29/17 13:39
Tetrachloro-m-xylene [2]	86.4	30-150		7/29/17 13:39

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-78-3 Sampled: 7/19/2017 11:44

Sample ID: 17G0776-06

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	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-78-4 Sampled: 7/19/2017 11:46

Sample ID: 17G0776-07

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	5		SW-846 8082A	7/26/17	7/29/17 13:57	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:57	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:57	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:57	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:57	JMB
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:57	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:57	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:57	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:57	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.1	30-150		7/29/17 13:57
Decachlorobiphenyl [2]	87.6	30-150		7/29/17 13:57
Tetrachloro-m-xylene [1]	86.0	30-150		7/29/17 13:57
Tetrachloro-m-xylene [2]	86.2	30-150		7/29/17 13:57

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-78-4 Sampled: 7/19/2017 11:46

Sample ID: 17G0776-07

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	72.2		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-81-1 Sampled: 7/19/2017 12:18

Sample ID: 17G0776-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:14	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:14	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:14	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:14	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:14	JMB
Aroclor-1254 [2]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:14	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:14	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:14	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:14	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.2	30-150		7/29/17 14:14
Decachlorobiphenyl [2]	78.3	30-150		7/29/17 14:14
Tetrachloro-m-xylene [1]	80.0	30-150		7/29/17 14:14
Tetrachloro-m-xylene [2]	81.3	30-150		7/29/17 14:14

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-81-1 Sampled: 7/19/2017 12:18

Sample ID: 17G0776-08

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	98.2		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-81-2 Sampled: 7/19/2017 12:20

Sample ID: 17G0776-09

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	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:32	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:32	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:32	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:32	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:32	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:32	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:32	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:32	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:32	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.5	30-150		7/29/17 14:32
Decachlorobiphenyl [2]	78.7	30-150		7/29/17 14:32
Tetrachloro-m-xylene [1]	76.5	30-150		7/29/17 14:32
Tetrachloro-m-xylene [2]	77.1	30-150		7/29/17 14:32

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-81-2 Sampled: 7/19/2017 12:20

Sample ID: 17G0776-09

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	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-81-3 Sampled: 7/19/2017 12:22

Sample ID: 17G0776-10

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	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:38	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:38	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:38	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:38	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:38	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:38	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:38	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:38	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:38	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.1	30-150		7/29/17 15:38
Decachlorobiphenyl [2]	85.8	30-150		7/29/17 15:38
Tetrachloro-m-xylene [1]	80.5	30-150		7/29/17 15:38
Tetrachloro-m-xylene [2]	82.0	30-150		7/29/17 15:38

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-81-3 Sampled: 7/19/2017 12:22

Sample ID: 17G0776-10

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	80.9		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-81-4 Sampled: 7/19/2017 12:24

Sample ID: 17G0776-11

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	5		SW-846 8082A	7/26/17	7/29/17 15:56	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:56	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:56	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:56	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:56	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:56	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:56	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:56	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:56	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.8	30-150		7/29/17 15:56
Decachlorobiphenyl [2]	90.8	30-150		7/29/17 15:56
Tetrachloro-m-xylene [1]	88.1	30-150		7/29/17 15:56
Tetrachloro-m-xylene [2]	89.4	30-150		7/29/17 15:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-81-4 Sampled: 7/19/2017 12:24

Sample ID: 17G0776-11

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	78.0		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-66-1 Sampled: 7/19/2017 12:03

Sample ID: 17G0776-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:13	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:13	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:13	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:13	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:13	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:13	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:13	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:13	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:13	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.9	30-150		7/29/17 16:13
Decachlorobiphenyl [2]	81.0	30-150		7/29/17 16:13
Tetrachloro-m-xylene [1]	76.6	30-150		7/29/17 16:13
Tetrachloro-m-xylene [2]	77.2	30-150		7/29/17 16:13

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-66-1 Sampled: 7/19/2017 12:03

Sample ID: 17G0776-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.6		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-66-2 Sampled: 7/19/2017 12:04

Sample ID: 17G0776-13

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	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:31	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:31	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:31	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:31	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:31	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:31	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:31	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:31	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:31	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.2	30-150		7/29/17 16:31
Decachlorobiphenyl [2]	80.9	30-150		7/29/17 16:31
Tetrachloro-m-xylene [1]	75.5	30-150		7/29/17 16:31
Tetrachloro-m-xylene [2]	76.3	30-150		7/29/17 16:31

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-66-2 Sampled: 7/19/2017 12:04

Sample ID: 17G0776-13

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	90.3		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-66-3 Sampled: 7/19/2017 12:05

Sample ID: 17G0776-14

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	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:49	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:49	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:49	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:49	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:49	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:49	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:49	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:49	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:49	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.2	30-150		7/29/17 16:49
Decachlorobiphenyl [2]	74.8	30-150		7/29/17 16:49
Tetrachloro-m-xylene [1]	71.2	30-150		7/29/17 16:49
Tetrachloro-m-xylene [2]	72.6	30-150		7/29/17 16:49

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-66-3 Sampled: 7/19/2017 12:05

Sample ID: 17G0776-14

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	74.6		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-84-1 Sampled: 7/19/2017 12:26

Sample ID: 17G0776-15

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	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:06	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:06	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:06	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:06	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:06	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:06	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:06	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:06	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:06	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.2	30-150		7/29/17 17:06
Decachlorobiphenyl [2]	89.6	30-150		7/29/17 17:06
Tetrachloro-m-xylene [1]	86.0	30-150		7/29/17 17:06
Tetrachloro-m-xylene [2]	86.8	30-150		7/29/17 17:06

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-84-1 Sampled: 7/19/2017 12:26

Sample ID: 17G0776-15

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	97.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-84-2A Sampled: 7/19/2017 12:28

Sample ID: 17G0776-16

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	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:24	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:24	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:24	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:24	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:24	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:24	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:24	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:24	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.5	30-150		7/29/17 17:24
Decachlorobiphenyl [2]	82.6	30-150		7/29/17 17:24
Tetrachloro-m-xylene [1]	77.4	30-150		7/29/17 17:24
Tetrachloro-m-xylene [2]	78.9	30-150		7/29/17 17:24

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-84-2A Sampled: 7/19/2017 12:28

Sample ID: 17G0776-16

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	94.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-84-2B Sampled: 7/19/2017 12:30

Sample ID: 17G0776-17

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	540	450	mg/Kg dry	20		CTDEP ETPH	7/26/17	8/2/17 23:36	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	86.3	50-150		8/2/17 23:36

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-84-2B Sampled: 7/19/2017 12:30

Sample ID: 17G0776-17

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	19	2.6	mg/Kg dry	1		SW-846 6010C-D	7/21/17	7/24/17 18:05	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-84-2B Sampled: 7/19/2017 12:30

Sample ID: 17G0776-17

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	89.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-84-3 Sampled: 7/19/2017 12:32

Sample ID: 17G0776-18

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	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:42	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:42	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:42	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:42	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:42	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:42	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:42	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:42	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:42	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.1	30-150		7/29/17 17:42
Decachlorobiphenyl [2]	87.1	30-150		7/29/17 17:42
Tetrachloro-m-xylene [1]	79.5	30-150		7/29/17 17:42
Tetrachloro-m-xylene [2]	81.6	30-150		7/29/17 17:42

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-84-3 Sampled: 7/19/2017 12:32

Sample ID: 17G0776-18

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.8		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-84-4 Sampled: 7/19/2017 12:34

Sample ID: 17G0776-19

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	0.15	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:00	JMB
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:00	JMB
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:00	JMB
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:00	JMB
Aroclor-1248 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:00	JMB
Aroclor-1254 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:00	JMB
Aroclor-1260 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:00	JMB
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:00	JMB
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:00	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.2	30-150		7/29/17 18:00
Decachlorobiphenyl [2]	88.3	30-150		7/29/17 18:00
Tetrachloro-m-xylene [1]	80.2	30-150		7/29/17 18:00
Tetrachloro-m-xylene [2]	82.1	30-150		7/29/17 18:00

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-84-4 Sampled: 7/19/2017 12:34

Sample ID: 17G0776-19

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	65.4		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-69-1 Sampled: 7/19/2017 13:36

Sample ID: 17G0776-20

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	5		SW-846 8082A	7/26/17	7/29/17 18:17	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:17	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:17	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:17	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:17	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:17	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:17	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:17	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:17	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.5	30-150		7/29/17 18:17
Decachlorobiphenyl [2]	84.2	30-150		7/29/17 18:17
Tetrachloro-m-xylene [1]	81.8	30-150		7/29/17 18:17
Tetrachloro-m-xylene [2]	83.2	30-150		7/29/17 18:17

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-69-1 Sampled: 7/19/2017 13:36

Sample ID: 17G0776-20

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	97.1		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0776-17 [WS-AOC12W-SO-84-2B]	B182589	30.0	2.00	07/26/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0776-01 [WS-AOC12W-SO-62-1]	B182549	07/26/17
17G0776-02 [WS-AOC12W-SO-62-2]	B182549	07/26/17
17G0776-03 [WS-AOC12W-SO-62-3]	B182549	07/26/17
17G0776-04 [WS-AOC12W-SO-78-1]	B182549	07/26/17
17G0776-05 [WS-AOC12W-SO-78-2]	B182549	07/26/17
17G0776-06 [WS-AOC12W-SO-78-3]	B182549	07/26/17
17G0776-07 [WS-AOC12W-SO-78-4]	B182549	07/26/17
17G0776-08 [WS-AOC12W-SO-81-1]	B182549	07/26/17
17G0776-09 [WS-AOC12W-SO-81-2]	B182549	07/26/17
17G0776-10 [WS-AOC12W-SO-81-3]	B182549	07/26/17
17G0776-11 [WS-AOC12W-SO-81-4]	B182549	07/26/17
17G0776-12 [WS-AOC12W-SO-66-1]	B182549	07/26/17
17G0776-13 [WS-AOC12W-SO-66-2]	B182549	07/26/17
17G0776-14 [WS-AOC12W-SO-66-3]	B182549	07/26/17
17G0776-15 [WS-AOC12W-SO-84-1]	B182549	07/26/17
17G0776-16 [WS-AOC12W-SO-84-2A]	B182549	07/26/17
17G0776-17 [WS-AOC12W-SO-84-2B]	B182549	07/26/17
17G0776-18 [WS-AOC12W-SO-84-3]	B182549	07/26/17
17G0776-19 [WS-AOC12W-SO-84-4]	B182549	07/26/17
17G0776-20 [WS-AOC12W-SO-69-1]	B182549	07/26/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0776-17 [WS-AOC12W-SO-84-2B]	B182194	1.06	50.0	07/21/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0776-01 [WS-AOC12W-SO-62-1]	B182528	10.0	10.0	07/26/17
17G0776-02 [WS-AOC12W-SO-62-2]	B182528	10.0	10.0	07/26/17
17G0776-03 [WS-AOC12W-SO-62-3]	B182528	10.0	10.0	07/26/17
17G0776-04 [WS-AOC12W-SO-78-1]	B182528	10.0	10.0	07/26/17
17G0776-05 [WS-AOC12W-SO-78-2]	B182528	10.0	10.0	07/26/17
17G0776-06 [WS-AOC12W-SO-78-3]	B182528	10.0	10.0	07/26/17
17G0776-07 [WS-AOC12W-SO-78-4]	B182528	10.0	10.0	07/26/17
17G0776-08 [WS-AOC12W-SO-81-1]	B182528	10.0	10.0	07/26/17
17G0776-09 [WS-AOC12W-SO-81-2]	B182528	10.0	10.0	07/26/17
17G0776-10 [WS-AOC12W-SO-81-3]	B182528	10.0	10.0	07/26/17
17G0776-11 [WS-AOC12W-SO-81-4]	B182528	10.0	10.0	07/26/17
17G0776-12 [WS-AOC12W-SO-66-1]	B182528	10.0	10.0	07/26/17
17G0776-13 [WS-AOC12W-SO-66-2]	B182528	10.0	10.0	07/26/17
17G0776-14 [WS-AOC12W-SO-66-3]	B182528	10.0	10.0	07/26/17
17G0776-15 [WS-AOC12W-SO-84-1]	B182528	10.0	10.0	07/26/17
17G0776-16 [WS-AOC12W-SO-84-2A]	B182528	10.0	10.0	07/26/17
17G0776-18 [WS-AOC12W-SO-84-3]	B182528	10.0	10.0	07/26/17

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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
17G0776-19 [WS-AOC12W-SO-84-4]	B182528	10.0	10.0	07/26/17
17G0776-20 [WS-AOC12W-SO-69-1]	B182528	10.0	10.0	07/26/17

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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 B182528 - SW-846 3540C										
Blank (B182528-BLK1)				Prepared: 07/26/17 Analyzed: 07/29/17						
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	*0.164*		mg/Kg wet	0.200		81.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.175*		mg/Kg wet	0.200		87.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.162*		mg/Kg wet	0.200		81.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.168*		mg/Kg wet	0.200		83.9	30-150			
LCS (B182528-BS1)				Prepared: 07/26/17 Analyzed: 07/29/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		78.8	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		79.0	40-140			
Aroclor-1260	0.14	0.020	mg/Kg wet	0.200		67.9	40-140			
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		70.9	40-140			
Surrogate: Decachlorobiphenyl	*0.167*		mg/Kg wet	0.200		83.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.180*		mg/Kg wet	0.200		89.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.168*		mg/Kg wet	0.200		84.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.171*		mg/Kg wet	0.200		85.6	30-150			
LCS Dup (B182528-BSD1)				Prepared: 07/26/17 Analyzed: 07/29/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		80.4	40-140	2.04	30	
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		80.2	40-140	1.41	30	
Aroclor-1260	0.14	0.020	mg/Kg wet	0.200		71.6	40-140	5.25	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		74.7	40-140	5.16	30	
Surrogate: Decachlorobiphenyl	*0.173*		mg/Kg wet	0.200		86.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.187*		mg/Kg wet	0.200		93.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.169*		mg/Kg wet	0.200		84.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.174*		mg/Kg wet	0.200		87.0	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 B182528 - SW-846 3540C										
Matrix Spike (B182528-MS1)		**Source: 17G0776-12**		Prepared: 07/26/17 Analyzed: 07/29/17						
Aroclor-1016	0.18	0.11	mg/Kg dry	0.211	ND	87.5	40-140			
Aroclor-1016 [2C]	0.19	0.11	mg/Kg dry	0.211	ND	88.5	40-140			
Aroclor-1260	0.15	0.11	mg/Kg dry	0.211	ND	69.7	40-140			
Aroclor-1260 [2C]	0.17	0.11	mg/Kg dry	0.211	ND	78.6	40-140			
Surrogate: Decachlorobiphenyl	*0.160*		mg/Kg dry	0.211		75.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.178*		mg/Kg dry	0.211		84.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.177*		mg/Kg dry	0.211		83.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.181*		mg/Kg dry	0.211		85.6	30-150			
Matrix Spike Dup (B182528-MSD1)		**Source: 17G0776-12**		Prepared: 07/26/17 Analyzed: 07/29/17						
Aroclor-1016	0.18	0.11	mg/Kg dry	0.211	ND	87.2	40-140	0.295	50	
Aroclor-1016 [2C]	0.19	0.11	mg/Kg dry	0.211	ND	89.8	40-140	1.41	50	
Aroclor-1260	0.15	0.11	mg/Kg dry	0.211	ND	70.9	40-140	1.70	50	
Aroclor-1260 [2C]	0.17	0.11	mg/Kg dry	0.211	ND	79.3	40-140	0.931	50	
Surrogate: Decachlorobiphenyl	*0.163*		mg/Kg dry	0.211		77.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg dry	0.211		84.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.176*		mg/Kg dry	0.211		83.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.176*		mg/Kg dry	0.211		83.3	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 B182589 - SW-846 3546										
Blank (B182589-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.17*		mg/Kg wet	3.33		95.1	50-150			
LCS (B182589-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	32.7	10	mg/Kg wet	33.3		98.1	60-120			
Surrogate: o-Terphenyl	*2.50*		mg/Kg wet	3.33		75.1	50-150			
LCS Dup (B182589-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	29.7	10	mg/Kg wet	33.3		89.0	60-120	9.67	30	
Surrogate: o-Terphenyl	*2.58*		mg/Kg wet	3.33		77.4	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 B182194 - SW-846 3050B										
Blank (B182194-BLK1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B182194-BS1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	51.6	5.0	mg/Kg wet	57.0		90.5	77.8-122.1			
LCS Dup (B182194-BSD1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	51.2	4.9	mg/Kg wet	57.0		89.9	77.8-122.1	0.723	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 B182549 - % Solids										
Duplicate (B182549-DUP3)		**Source: 17G0776-12**		Prepared: 07/26/17 Analyzed: 07/27/17						
% Solids	94.3		% Wt		94.6			0.318	20	
Duplicate (B182549-DUP4)		**Source: 17G0776-13**		Prepared: 07/26/17 Analyzed: 07/27/17						
% Solids	91.0		% Wt		90.3			0.772	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182528-BS1 Date(s) Analyzed: 07/29/2017 07/29/2017

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.14	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182528-BSD1 Date(s) Analyzed: 07/29/2017 07/29/2017

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.15	6.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182528-MS1 Date(s) Analyzed: 07/29/2017 07/29/2017

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.19	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.17	12.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182528-MSD1 Date(s) Analyzed: 07/29/2017 07/29/2017

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.19	5.4
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.17	12.5

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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.

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CERTIFICATIONS

Certified Analyses included in this Report

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

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

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

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con-test ANALYTICAL LABORATORY

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic
1	WS-AOC12W-SO-62-1	7/19/17	11:44		X	S	U	X					
2	WS-AOC12W-SO-62-2		11:45					X					
3	WS-AOC12W-SO-62-3		11:46					X					
4	WS-AOC12W-SO-78-1		11:40					X					
5	WS-AOC12W-SO-78-2		11:42					X					
6	WS-AOC12W-SO-78-3		11:44					X					
7	WS-AOC12W-SO-78-4		11:46					X					
8	WS-AOC12W-SO-81-1		12:18					X					
9	WS-AOC12W-SO-81-2		12:20					X					
10	WS-AOC12W-SO-81-3		12:22					X					

# 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) _____

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: 7/19/17 1530
Received by: (signature) Tom Maw	Date/Time: 7/19/17 1530
Relinquished by: (signature) Tom Maw	Date/Time: 7/19/17 1740
Received by: (signature)	Date/Time: 7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
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7-Day ☑ 10-Day ☐
Other: 5-day ☐

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1-Day ☐ 3-Day ☐
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Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12W-SO-81-4	7/19/17	12:24		X	S	U	X								
12	WS-AOC12W-SO-66-1 (MS-MSD)		12:03					X								
13	WS-AOC12W-SO-66-2		12:04					X								
14	WS-AOC12W-SO-66-3		12:05					X								
15	WS-AOC12W-SO-84-1		12:26					X								
16	WS-AOC12W-SO-84-2A		12:28					X								
17	WS-AOC12W-SO-84-2B		12:30								X		X			
18	WS-AOC12W-SO-84-3		12:32					X								
19	WS-AOC12W-SO-84-4		12:34					X								
20	WS-AOC12W-SO-69-1		13:36					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:
WS-AOC12W-SO-66-1 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time:
[signature]	7/19/17 1530
Received by: (signature) Tom Mau	Date/Time: 7/19/17 1530
Relinquished by: (signature) Tom Mau	Date/Time: 7/19/17 1740
Received by: (signature)	Date/Time: 7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

Program Information

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

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Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By JM Date 7/19/17 Time 1740

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 # 2 Actual Temp - 3.4, 2.9, 4.1
By Blank # ____ Actual Temp - ____

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

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-	20	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	22
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

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: 17G0776

Laboratory Sample ID(s):

17G0776-01 thru 17G0776-20

Sample Date(s):

07/19/2017

List RCP Methods Used:

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

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

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

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

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

Printed Name: **Lisa A. Worthington** **Date:** **08/03/17**

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

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

con-test® ANALYTICAL LABORATORY
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August 3, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G0777

Enclosed are results of analyses for samples received by the laboratory on July 19, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

REPORT DATE: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0777

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-SO-69-2	17G0777-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-69-3	17G0777-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-73-1A	17G0777-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-73-1B	17G0777-04	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 8270D	
WS-AOC12W-SO-73-2	17G0777-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-73-3	17G0777-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-85-1	17G0777-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-85-2A	17G0777-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-85-2B	17G0777-09	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC12W-SO-85-3	17G0777-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-85-4	17G0777-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-82-1	17G0777-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-82-2	17G0777-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-82-3	17G0777-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-82-4	17G0777-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-77-1	17G0777-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-77-2	17G0777-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-77-3	17G0777-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-77-4	17G0777-19	Soil		SM 2540G	
				SW-846 8082A	

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

REPORT DATE: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0777

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-SO-79-1	17G0777-20	Soil		SM 2540G SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

For method 6010, only As was requested and reported.

For method 8270, only PAHs were requested and reported.

SW-846 8270D

Qualifications:

E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

Benzo(b)fluoranthene
17G0777-09[WS-AOC12W-SO-85-2B]

Fluoranthene
17G0777-09[WS-AOC12W-SO-85-2B]

Pyrene
17G0777-09[WS-AOC12W-SO-85-2B]

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

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-69-2 Sampled: 7/19/2017 13:38

Sample ID: 17G0777-01

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	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:40	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:40	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:40	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:40	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:40	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:40	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:40	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:40	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:40	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.1	30-150		7/28/17 17:40
Decachlorobiphenyl [2]	99.7	30-150		7/28/17 17:40
Tetrachloro-m-xylene [1]	88.5	30-150		7/28/17 17:40
Tetrachloro-m-xylene [2]	88.3	30-150		7/28/17 17:40

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-69-2 Sampled: 7/19/2017 13:38

Sample ID: 17G0777-01

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	95.4		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-69-3 Sampled: 7/19/2017 13:40

Sample ID: 17G0777-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:58	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:58	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:58	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:58	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:58	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:58	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:58	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:58	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:58	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.6	30-150		7/28/17 17:58
Decachlorobiphenyl [2]	86.9	30-150		7/28/17 17:58
Tetrachloro-m-xylene [1]	78.8	30-150		7/28/17 17:58
Tetrachloro-m-xylene [2]	82.1	30-150		7/28/17 17:58

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-69-3 Sampled: 7/19/2017 13:40

Sample ID: 17G0777-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.2		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-73-1A Sampled: 7/19/2017 13:57

Sample ID: 17G0777-03

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	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:15	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:15	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:15	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:15	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:15	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:15	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:15	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:15	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:15	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.4	30-150		7/28/17 18:15
Decachlorobiphenyl [2]	97.4	30-150		7/28/17 18:15
Tetrachloro-m-xylene [1]	95.6	30-150		7/28/17 18:15
Tetrachloro-m-xylene [2]	107	30-150		7/28/17 18:15

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-73-1A Sampled: 7/19/2017 13:57

Sample ID: 17G0777-03

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	95.5		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-73-1B Sampled: 7/19/2017 13:58

Sample ID: 17G0777-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Benzo(b)fluoranthene	0.30	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Chrysene	0.43	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Fluoranthene	0.31	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
2-Methylnaphthalene	0.98	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Naphthalene	0.39	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Phenanthrene	1.2	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Pyrene	0.30	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	71.8	30-130		7/31/17 13:29
2-Fluorobiphenyl	69.6	30-130		7/31/17 13:29
p-Terphenyl-d14	83.3	30-130		7/31/17 13:29

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-73-1B Sampled: 7/19/2017 13:58

Sample ID: 17G0777-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	260	110	mg/Kg dry	10		CTDEP ETPH	7/26/17	8/2/17 18:12	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	101	50-150		8/2/17 18:12

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-73-1B Sampled: 7/19/2017 13:58

Sample ID: 17G0777-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	4.7	2.7	mg/Kg dry	1		SW-846 6010C-D	7/21/17	7/24/17 18:05	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-73-1B Sampled: 7/19/2017 13:58

Sample ID: 17G0777-04

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	90.5		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-73-2 Sampled: 7/19/2017 13:59

Sample ID: 17G0777-05

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	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:33	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:33	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:33	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:33	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:33	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:33	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:33	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:33	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:33	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.0	30-150		7/28/17 18:33
Decachlorobiphenyl [2]	92.9	30-150		7/28/17 18:33
Tetrachloro-m-xylene [1]	85.1	30-150		7/28/17 18:33
Tetrachloro-m-xylene [2]	89.0	30-150		7/28/17 18:33

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-73-2 Sampled: 7/19/2017 13:59

Sample ID: 17G0777-05

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	84.4		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-73-3 Sampled: 7/19/2017 14:00

Sample ID: 17G0777-06

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	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:50	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:50	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:50	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:50	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:50	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:50	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:50	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:50	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:50	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.5	30-150		7/28/17 18:50
Decachlorobiphenyl [2]	109	30-150		7/28/17 18:50
Tetrachloro-m-xylene [1]	98.4	30-150		7/28/17 18:50
Tetrachloro-m-xylene [2]	109	30-150		7/28/17 18:50

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-73-3 Sampled: 7/19/2017 14:00

Sample ID: 17G0777-06

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	69.9		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-85-1 Sampled: 7/19/2017 14:00

Sample ID: 17G0777-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:08	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:08	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:08	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:08	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:08	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:08	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:08	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:08	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:08	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.0	30-150		7/28/17 19:08
Decachlorobiphenyl [2]	92.3	30-150		7/28/17 19:08
Tetrachloro-m-xylene [1]	88.6	30-150		7/28/17 19:08
Tetrachloro-m-xylene [2]	94.1	30-150		7/28/17 19:08

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-85-1 Sampled: 7/19/2017 14:00

Sample ID: 17G0777-07

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	97.6		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-85-2A Sampled: 7/19/2017 14:02

Sample ID: 17G0777-08

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	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:26	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:26	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:26	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:26	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:26	KAL
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:26	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:26	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:26	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:26	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	65.6	30-150		7/28/17 19:26
Decachlorobiphenyl [2]	86.0	30-150		7/28/17 19:26
Tetrachloro-m-xylene [1]	80.9	30-150		7/28/17 19:26
Tetrachloro-m-xylene [2]	80.8	30-150		7/28/17 19:26

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-85-2A Sampled: 7/19/2017 14:02

Sample ID: 17G0777-08

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	78.4		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-85-2B Sampled: 7/19/2017 14:04

Sample ID: 17G0777-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.50	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Acenaphthene	ND	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Acenaphthylene	1.6	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Acenaphthylene	1.5	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Anthracene	2.5	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Anthracene	2.2	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Benzo(a)anthracene	5.4	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Benzo(a)anthracene	5.3	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Benzo(a)pyrene	6.2	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Benzo(a)pyrene	5.9	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Benzo(b)fluoranthene	8.5	0.36	mg/Kg dry	1	E	SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Benzo(b)fluoranthene	7.8	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Benzo(g,h,i)perylene	4.6	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Benzo(g,h,i)perylene	4.4	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Benzo(k)fluoranthene	2.9	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Benzo(k)fluoranthene	3.1	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Chrysene	6.2	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Chrysene	6.1	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Dibenz(a,h)anthracene	0.58	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Dibenz(a,h)anthracene	ND	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Fluoranthene	11	0.36	mg/Kg dry	1	E	SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Fluoranthene	10	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Fluorene	0.94	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Fluorene	0.80	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Indeno(1,2,3-cd)pyrene	4.6	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Indeno(1,2,3-cd)pyrene	4.4	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
2-Methylnaphthalene	3.0	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
2-Methylnaphthalene	2.9	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Naphthalene	5.8	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Naphthalene	5.7	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Phenanthrene	6.9	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Phenanthrene	6.6	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Pyrene	12	0.36	mg/Kg dry	1	E	SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Pyrene	12	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	61.4	30-130		7/31/17 13:54
Nitrobenzene-d5	58.9	30-130		7/31/17 14:51
2-Fluorobiphenyl	62.9	30-130		7/31/17 13:54
2-Fluorobiphenyl	60.4	30-130		7/31/17 14:51
p-Terphenyl-d14	80.3	30-130		7/31/17 13:54
p-Terphenyl-d14	79.4	30-130		7/31/17 14:51

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-85-2B Sampled: 7/19/2017 14:04

Sample ID: 17G0777-09

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	47.6		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-85-3 Sampled: 7/19/2017 14:06

Sample ID: 17G0777-10

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	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:43	KAL
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:43	KAL
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:43	KAL
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:43	KAL
Aroclor-1248 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:43	KAL
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:43	KAL
Aroclor-1260 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:43	KAL
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:43	KAL
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:43	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	59.8	30-150		7/28/17 19:43
Decachlorobiphenyl [2]	78.0	30-150		7/28/17 19:43
Tetrachloro-m-xylene [1]	82.1	30-150		7/28/17 19:43
Tetrachloro-m-xylene [2]	82.4	30-150		7/28/17 19:43

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-85-3 Sampled: 7/19/2017 14:06

Sample ID: 17G0777-10

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	60.2		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-85-4 Sampled: 7/19/2017 14:08

Sample ID: 17G0777-11

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	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:01	KAL
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:01	KAL
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:01	KAL
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:01	KAL
Aroclor-1248 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:01	KAL
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:01	KAL
Aroclor-1260 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:01	KAL
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:01	KAL
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:01	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.6	30-150		7/28/17 20:01
Decachlorobiphenyl [2]	93.1	30-150		7/28/17 20:01
Tetrachloro-m-xylene [1]	79.3	30-150		7/28/17 20:01
Tetrachloro-m-xylene [2]	81.3	30-150		7/28/17 20:01

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-85-4 Sampled: 7/19/2017 14:08

Sample ID: 17G0777-11

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	58.3		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-82-1 Sampled: 7/19/2017 14:10

Sample ID: 17G0777-12

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	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:18	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:18	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:18	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:18	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:18	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:18	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:18	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:18	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:18	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.5	30-150		7/28/17 20:18
Decachlorobiphenyl [2]	91.9	30-150		7/28/17 20:18
Tetrachloro-m-xylene [1]	76.7	30-150		7/28/17 20:18
Tetrachloro-m-xylene [2]	79.1	30-150		7/28/17 20:18

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-82-1 Sampled: 7/19/2017 14:10

Sample ID: 17G0777-12

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	96.9		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-82-2 Sampled: 7/19/2017 14:12

Sample ID: 17G0777-13

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	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:19	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:19	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:19	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:19	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:19	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:19	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:19	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:19	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:19	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.8	30-150		7/28/17 21:19
Decachlorobiphenyl [2]	107	30-150		7/28/17 21:19
Tetrachloro-m-xylene [1]	81.9	30-150		7/28/17 21:19
Tetrachloro-m-xylene [2]	85.5	30-150		7/28/17 21:19

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-82-2 Sampled: 7/19/2017 14:12

Sample ID: 17G0777-13

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	94.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-82-3 Sampled: 7/19/2017 14:14

Sample ID: 17G0777-14

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	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:37	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:37	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:37	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:37	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:37	KAL
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:37	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:37	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:37	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:37	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.4	30-150		7/28/17 21:37
Decachlorobiphenyl [2]	96.8	30-150		7/28/17 21:37
Tetrachloro-m-xylene [1]	87.1	30-150		7/28/17 21:37
Tetrachloro-m-xylene [2]	88.6	30-150		7/28/17 21:37

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-82-3 Sampled: 7/19/2017 14:14

Sample ID: 17G0777-14

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	77.8		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-82-4 Sampled: 7/19/2017 14:16

Sample ID: 17G0777-15

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	5		SW-846 8082A	7/26/17	7/28/17 21:54	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:54	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:54	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:54	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:54	KAL
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:54	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:54	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:54	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:54	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.6	30-150		7/28/17 21:54
Decachlorobiphenyl [2]	84.7	30-150		7/28/17 21:54
Tetrachloro-m-xylene [1]	78.5	30-150		7/28/17 21:54
Tetrachloro-m-xylene [2]	78.0	30-150		7/28/17 21:54

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-82-4 Sampled: 7/19/2017 14:16

Sample ID: 17G0777-15

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	76.2		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-77-1 Sampled: 7/19/2017 14:14

Sample ID: 17G0777-16

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	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:12	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:12	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:12	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:12	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:12	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:12	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:12	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:12	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:12	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.6	30-150		7/28/17 22:12
Decachlorobiphenyl [2]	84.8	30-150		7/28/17 22:12
Tetrachloro-m-xylene [1]	79.8	30-150		7/28/17 22:12
Tetrachloro-m-xylene [2]	81.3	30-150		7/28/17 22:12

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-77-1 Sampled: 7/19/2017 14:14

Sample ID: 17G0777-16

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	93.8		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-77-2 Sampled: 7/19/2017 14:15

Sample ID: 17G0777-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:29	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:29	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:29	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:29	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:29	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:29	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:29	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:29	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:29	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.5	30-150		7/28/17 22:29
Decachlorobiphenyl [2]	87.3	30-150		7/28/17 22:29
Tetrachloro-m-xylene [1]	87.1	30-150		7/28/17 22:29
Tetrachloro-m-xylene [2]	90.1	30-150		7/28/17 22:29

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-77-2 Sampled: 7/19/2017 14:15

Sample ID: 17G0777-17

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	91.8		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-77-3 Sampled: 7/19/2017 14:16

Sample ID: 17G0777-18

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	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:47	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:47	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:47	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:47	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:47	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:47	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:47	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:47	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:47	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.8	30-150		7/28/17 22:47
Decachlorobiphenyl [2]	92.1	30-150		7/28/17 22:47
Tetrachloro-m-xylene [1]	88.3	30-150		7/28/17 22:47
Tetrachloro-m-xylene [2]	88.4	30-150		7/28/17 22:47

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-77-3 Sampled: 7/19/2017 14:16

Sample ID: 17G0777-18

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	89.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-77-4 Sampled: 7/19/2017 14:17

Sample ID: 17G0777-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:04	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:04	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:04	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:04	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:04	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:04	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:04	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:04	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:04	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.1	30-150		7/28/17 23:04
Decachlorobiphenyl [2]	85.0	30-150		7/28/17 23:04
Tetrachloro-m-xylene [1]	90.7	30-150		7/28/17 23:04
Tetrachloro-m-xylene [2]	98.7	30-150		7/28/17 23:04

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-77-4 Sampled: 7/19/2017 14:17

Sample ID: 17G0777-19

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	73.1		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-1 Sampled: 7/19/2017 14:30

Sample ID: 17G0777-20

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	5		SW-846 8082A	7/26/17	7/28/17 23:22	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:22	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:22	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:22	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:22	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:22	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:22	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:22	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:22	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.0	30-150		7/28/17 23:22
Decachlorobiphenyl [2]	84.9	30-150		7/28/17 23:22
Tetrachloro-m-xylene [1]	93.3	30-150		7/28/17 23:22
Tetrachloro-m-xylene [2]	103	30-150		7/28/17 23:22

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-1 Sampled: 7/19/2017 14:30

Sample ID: 17G0777-20

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	98.8		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0777-04 [WS-AOC12W-SO-73-1B]	B182589	30.0	1.00	07/26/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0777-01 [WS-AOC12W-SO-69-2]	B182549	07/26/17
17G0777-02 [WS-AOC12W-SO-69-3]	B182549	07/26/17
17G0777-03 [WS-AOC12W-SO-73-1A]	B182549	07/26/17
17G0777-04 [WS-AOC12W-SO-73-1B]	B182549	07/26/17
17G0777-05 [WS-AOC12W-SO-73-2]	B182549	07/26/17
17G0777-06 [WS-AOC12W-SO-73-3]	B182549	07/26/17
17G0777-07 [WS-AOC12W-SO-85-1]	B182549	07/26/17
17G0777-08 [WS-AOC12W-SO-85-2A]	B182549	07/26/17
17G0777-09 [WS-AOC12W-SO-85-2B]	B182549	07/26/17
17G0777-10 [WS-AOC12W-SO-85-3]	B182549	07/26/17
17G0777-11 [WS-AOC12W-SO-85-4]	B182549	07/26/17
17G0777-12 [WS-AOC12W-SO-82-1]	B182549	07/26/17
17G0777-13 [WS-AOC12W-SO-82-2]	B182549	07/26/17
17G0777-14 [WS-AOC12W-SO-82-3]	B182549	07/26/17
17G0777-15 [WS-AOC12W-SO-82-4]	B182549	07/26/17
17G0777-16 [WS-AOC12W-SO-77-1]	B182549	07/26/17
17G0777-17 [WS-AOC12W-SO-77-2]	B182549	07/26/17
17G0777-18 [WS-AOC12W-SO-77-3]	B182549	07/26/17
17G0777-19 [WS-AOC12W-SO-77-4]	B182549	07/26/17
17G0777-20 [WS-AOC12W-SO-79-1]	B182549	07/26/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0777-04 [WS-AOC12W-SO-73-1B]	B182194	1.01	50.0	07/21/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0777-01 [WS-AOC12W-SO-69-2]	B182529	10.0	10.0	07/26/17
17G0777-02 [WS-AOC12W-SO-69-3]	B182529	10.0	10.0	07/26/17
17G0777-03 [WS-AOC12W-SO-73-1A]	B182529	10.0	10.0	07/26/17
17G0777-05 [WS-AOC12W-SO-73-2]	B182529	10.0	10.0	07/26/17
17G0777-06 [WS-AOC12W-SO-73-3]	B182529	10.0	10.0	07/26/17
17G0777-07 [WS-AOC12W-SO-85-1]	B182529	10.0	10.0	07/26/17
17G0777-08 [WS-AOC12W-SO-85-2A]	B182529	10.0	10.0	07/26/17
17G0777-10 [WS-AOC12W-SO-85-3]	B182529	10.0	10.0	07/26/17
17G0777-11 [WS-AOC12W-SO-85-4]	B182529	10.0	10.0	07/26/17
17G0777-12 [WS-AOC12W-SO-82-1]	B182529	10.0	10.0	07/26/17
17G0777-13 [WS-AOC12W-SO-82-2]	B182529	10.0	10.0	07/26/17
17G0777-14 [WS-AOC12W-SO-82-3]	B182529	10.0	10.0	07/26/17
17G0777-15 [WS-AOC12W-SO-82-4]	B182529	10.0	10.0	07/26/17
17G0777-16 [WS-AOC12W-SO-77-1]	B182529	10.0	10.0	07/26/17
17G0777-17 [WS-AOC12W-SO-77-2]	B182529	10.0	10.0	07/26/17
17G0777-18 [WS-AOC12W-SO-77-3]	B182529	10.0	10.0	07/26/17
17G0777-19 [WS-AOC12W-SO-77-4]	B182529	10.0	10.0	07/26/17

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

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0777-20 [WS-AOC12W-SO-79-1]	B182529	10.0	10.0	07/26/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0777-04 [WS-AOC12W-SO-73-1B]	B182604	30.0	1.00	07/26/17
17G0777-09 [WS-AOC12W-SO-85-2B]	B182604	30.0	1.00	07/26/17
17G0777-09RE1 [WS-AOC12W-SO-85-2B]	B182604	30.0	1.00	07/26/17

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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 B182604 - SW-846 3546										
Blank (B182604-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.42*		mg/Kg wet	3.33		72.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.72*		mg/Kg wet	3.33		81.5	30-130			
LCS (B182604-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	0.860	0.17	mg/Kg wet	1.67		51.6	40-140			
Acenaphthylene	0.832	0.17	mg/Kg wet	1.67		49.9	40-140			
Anthracene	0.914	0.17	mg/Kg wet	1.67		54.8	40-140			
Benzo(a)anthracene	0.935	0.17	mg/Kg wet	1.67		56.1	40-140			
Benzo(a)pyrene	0.940	0.17	mg/Kg wet	1.67		56.4	40-140			
Benzo(b)fluoranthene	0.852	0.17	mg/Kg wet	1.67		51.1	40-140			
Benzo(g,h,i)perylene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140			
Benzo(k)fluoranthene	0.863	0.17	mg/Kg wet	1.67		51.8	40-140			
Chrysene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Dibenz(a,h)anthracene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140			
Fluoranthene	0.889	0.17	mg/Kg wet	1.67		53.3	40-140			
Fluorene	0.876	0.17	mg/Kg wet	1.67		52.6	40-140			
Indeno(1,2,3-cd)pyrene	0.984	0.17	mg/Kg wet	1.67		59.1	40-140			
2-Methylnaphthalene	0.851	0.17	mg/Kg wet	1.67		51.0	40-140			
Naphthalene	0.836	0.17	mg/Kg wet	1.67		50.1	40-140			
Phenanthrene	0.915	0.17	mg/Kg wet	1.67		54.9	40-140			
Pyrene	0.887	0.17	mg/Kg wet	1.67		53.2	40-140			
Surrogate: Nitrobenzene-d5	*1.92*		mg/Kg wet	3.33		57.6	30-130			
Surrogate: 2-Fluorobiphenyl	*1.93*		mg/Kg wet	3.33		57.9	30-130			
Surrogate: p-Terphenyl-d14	*2.13*		mg/Kg wet	3.33		63.8	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 B182604 - SW-846 3546										
LCS Dup (B182604-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	19.3	30	
Acenaphthylene	1.02	0.17	mg/Kg wet	1.67		61.1	40-140	20.0	30	
Anthracene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140	20.1	30	
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	19.2	30	
Benzo(a)pyrene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	17.1	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	17.2	30	
Benzo(g,h,i)perylene	1.35	0.17	mg/Kg wet	1.67		81.1	40-140	20.0	30	
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140	18.4	30	
Chrysene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140	17.4	30	
Dibenz(a,h)anthracene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140	20.4	30	
Fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140	22.5	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.6	40-140	19.0	30	
Indeno(1,2,3-cd)pyrene	1.27	0.17	mg/Kg wet	1.67		76.0	40-140	25.1	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	20.1	30	
Naphthalene	1.01	0.17	mg/Kg wet	1.67		60.5	40-140	18.8	30	
Phenanthrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	18.7	30	
Pyrene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	23.2	30	
Surrogate: Nitrobenzene-d5	*2.33*		mg/Kg wet	3.33		70.0	30-130			
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/Kg wet	3.33		69.9	30-130			
Surrogate: p-Terphenyl-d14	*2.60*		mg/Kg wet	3.33		78.0	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 B182529 - SW-846 3540C										
Blank (B182529-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.168*		mg/Kg wet	0.200		83.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.159*		mg/Kg wet	0.200		79.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.171*		mg/Kg wet	0.200		85.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.160*		mg/Kg wet	0.200		80.0	30-150			
LCS (B182529-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.2	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.4	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.6	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.7	40-140			
Surrogate: Decachlorobiphenyl	*0.167*		mg/Kg wet	0.200		83.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.157*		mg/Kg wet	0.200		78.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.175*		mg/Kg wet	0.200		87.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.164*		mg/Kg wet	0.200		81.8	30-150			
LCS Dup (B182529-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		75.6	40-140	17.6	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		76.8	40-140	15.1	30	
Aroclor-1260	0.13	0.020	mg/Kg wet	0.200		65.7	40-140	19.1	30	
Aroclor-1260 [2C]	0.12	0.020	mg/Kg wet	0.200		62.3	40-140	16.8	30	
Surrogate: Decachlorobiphenyl	*0.142*		mg/Kg wet	0.200		70.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.133*		mg/Kg wet	0.200		66.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.150*		mg/Kg wet	0.200		75.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.140*		mg/Kg wet	0.200		70.1	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182529 - SW-846 3540C										
Matrix Spike (B182529-MS1)		**Source: 17G0777-01**		Prepared: 07/26/17 Analyzed: 07/28/17						
Aroclor-1016	0.18	0.10	mg/Kg dry	0.210	ND	85.2	40-140			
Aroclor-1016 [2C]	0.16	0.10	mg/Kg dry	0.210	ND	76.2	40-140			
Aroclor-1260	0.14	0.10	mg/Kg dry	0.210	ND	65.8	40-140			
Aroclor-1260 [2C]	0.14	0.10	mg/Kg dry	0.210	ND	67.6	40-140			
Surrogate: Decachlorobiphenyl	*0.160*		mg/Kg dry	0.210		76.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.185*		mg/Kg dry	0.210		88.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.187*		mg/Kg dry	0.210		89.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.191*		mg/Kg dry	0.210		91.2	30-150			
Matrix Spike Dup (B182529-MSD1)		**Source: 17G0777-01**		Prepared: 07/26/17 Analyzed: 07/28/17						
Aroclor-1016	0.15	0.10	mg/Kg dry	0.210	ND	73.3	40-140	15.0	50	
Aroclor-1016 [2C]	0.14	0.10	mg/Kg dry	0.210	ND	65.2	40-140	15.4	50	
Aroclor-1260	0.12	0.10	mg/Kg dry	0.210	ND	58.2	40-140	12.3	50	
Aroclor-1260 [2C]	0.13	0.10	mg/Kg dry	0.210	ND	61.6	40-140	9.37	50	
Surrogate: Decachlorobiphenyl	*0.137*		mg/Kg dry	0.210		65.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.167*		mg/Kg dry	0.210		79.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.159*		mg/Kg dry	0.210		76.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.162*		mg/Kg dry	0.210		77.5	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 B182589 - SW-846 3546										
Blank (B182589-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.17*		mg/Kg wet	3.33		95.1	50-150			
LCS (B182589-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	32.7	10	mg/Kg wet	33.3		98.1	60-120			
Surrogate: o-Terphenyl	*2.50*		mg/Kg wet	3.33		75.1	50-150			
LCS Dup (B182589-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	29.7	10	mg/Kg wet	33.3		89.0	60-120	9.67	30	
Surrogate: o-Terphenyl	*2.58*		mg/Kg wet	3.33		77.4	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 B182194 - SW-846 3050B										
Blank (B182194-BLK1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B182194-BS1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	51.6	5.0	mg/Kg wet	57.0		90.5	77.8-122.1			
LCS Dup (B182194-BSD1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	51.2	4.9	mg/Kg wet	57.0		89.9	77.8-122.1	0.723	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 B182549 - % Solids										
Duplicate (B182549-DUP5)		**Source: 17G0777-01**		Prepared: 07/26/17 Analyzed: 07/27/17						
% Solids	95.2		% Wt		95.4			0.210	20	
Duplicate (B182549-DUP6)		**Source: 17G0777-02**		Prepared: 07/26/17 Analyzed: 07/27/17						
% Solids	80.1		% Wt		82.2			2.59	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182529-BS1 Date(s) Analyzed: 07/27/2017 07/27/2017

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.18	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.15	6.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182529-BSD1 Date(s) Analyzed: 07/27/2017 07/27/2017

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.15	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.12	8.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182529-MS1

Date(s) Analyzed: 07/28/2017 07/28/2017

Instrument ID (1): ECD 9

Instrument ID (2): ECD 9

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.16	11.8
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.14	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182529-MSD1

Date(s) Analyzed: 07/28/2017 07/28/2017

Instrument ID (1): ECD 9

Instrument ID (2): ECD 9

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.14	6.9
Aroclor-1260	1	0.000	-0.030	0.030	0.12	
	2	0.000	-0.030	0.030	0.13	8.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
E	Reported result is estimated. Value reported over verified calibration range.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

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

1740777

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Doc # 381 Rev 0 5 8 2015

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic						# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12W-SO-69-2	7/19/17	13:30		X	S	U	X													
2	WS-AOC12W-SO-69-3		13:40					X													
3	WS-AOC12W-SO-73-1A		13:57					X													
4	WS-AOC12W-SO-73-1B		13:58							X	X		X								
5	WS-AOC12W-SO-73-2		13:59					X													
6	WS-AOC12W-SO-73-3		14:00					X													
7	WS-AOC12W-SO-85-1		14:00					X													
8	WS-AOC12W-SO-85-2A		14:02					X													
9	WS-AOC12W-SO-85-2B		14:04							X											
10	WS-AOC12W-SO-85-3		14:06					X													

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time: 7/19/17 1530
Received by: (signature) Tom Mau	Date/Time: 7/19/17 1530
Relinquished by: (signature) Tom Mau	Date/Time: 7/19/17 1740
Received by: (signature)	Date/Time: 7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-A0C12W-SO-85-4	7/19/17	14:08		X	S	U	X								
12	WS-A0C12W-SO-82-1		14:10					X								
13	WS-A0C12W-SO-82-2		14:12					X								
14	WS-A0C12W-SO-82-3		14:14					X								
15	WS-A0C12W-SO-82-4		14:16					X								
16	WS-A0C12W-SO-77-1		14:14					X								
17	WS-A0C12W-SO-77-2		14:15					X								
18	WS-A0C12W-SO-77-3		14:16					X								
19	WS-A0C12W-SO-77-4		14:17					X								
20	WS-A0C12W-SO-79-1		14:30					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time:
[signature]	7/19/17 1530
Received by: (signature) Tom Mauri	Date/Time: 7/19/17 1530
Relinquished by: (signature) Tom Mauri	Date/Time: 7/19/17 1740
Received by: (signature) [signature] 3.4	Date/Time: 7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

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Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By JM Date 7/19/17 Time 1740

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 # 2 Actual Temp - 3.4, 2.9, 4.1
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? 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-	~~20~~	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	20
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

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: 17G0777

Laboratory Sample ID(s):

17G0777-01 thru 17G0777-20

Sample Date(s):

07/19/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A, SW-846 8270D

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

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

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

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

Printed Name: **Lisa A. Worthington** **Date:** **08/03/17**

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

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

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

August 4, 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: 17G0778

Enclosed are results of analyses for samples received by the laboratory on July 19, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

REPORT DATE: 8/4/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0778

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-SO-79-2A	17G0778-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-79-2B	17G0778-02	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 8270D	
WS-AOC12W-SO-79-3	17G0778-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-79-4	17G0778-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-80-1	17G0778-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-80-2	17G0778-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-80-3	17G0778-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-80-4	17G0778-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-72-1	17G0778-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-72-2	17G0778-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-72-3	17G0778-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-83-1	17G0778-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-83-2A	17G0778-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-83-2B	17G0778-14	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 8270D	
WS-AOC12W-SO-83-3	17G0778-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-83-4	17G0778-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-76-1	17G0778-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-76-2	17G0778-18	Soil		SM 2540G	
				SW-846 8082A	

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

REPORT DATE: 8/4/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0778

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-SO-76-3	17G0778-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-76-4	17G0778-20	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

For method 6010, only As was requested and reported.

For method 8270, only PAHs were requested and reported.

SW-846 8082A

Qualifications:

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-1016 [2C]
B182583-MSD1

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

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-2A Sampled: 7/19/2017 14:32

Sample ID: 17G0778-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:08	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:08	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:08	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:08	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:08	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:08	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:08	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:08	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:08	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.6	30-150		8/3/17 16:08
Decachlorobiphenyl [2]	93.7	30-150		8/3/17 16:08
Tetrachloro-m-xylene [1]	87.0	30-150		8/3/17 16:08
Tetrachloro-m-xylene [2]	85.0	30-150		8/3/17 16:08

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-2A Sampled: 7/19/2017 14:32

Sample ID: 17G0778-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.6		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-2B Sampled: 7/19/2017 14:34

Sample ID: 17G0778-02

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	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Chrysene	0.37	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Fluoranthene	0.21	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
2-Methylnaphthalene	2.1	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Naphthalene	0.97	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Phenanthrene	1.7	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Pyrene	0.26	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	67.1	30-130		7/31/17 13:55
2-Fluorobiphenyl	56.3	30-130		7/31/17 13:55
p-Terphenyl-d14	63.0	30-130		7/31/17 13:55

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-2B Sampled: 7/19/2017 14:34

Sample ID: 17G0778-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	340	110	mg/Kg dry	10		CTDEP ETPH	7/26/17	8/2/17 17:35	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	115	50-150		8/2/17 17:35

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-2B Sampled: 7/19/2017 14:34

Sample ID: 17G0778-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	5.9	2.7	mg/Kg dry	1		SW-846 6010C-D	7/21/17	7/24/17 18:05	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-2B Sampled: 7/19/2017 14:34

Sample ID: 17G0778-02

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	91.9		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-3 Sampled: 7/19/2017 14:36

Sample ID: 17G0778-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:21	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:21	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:21	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:21	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:21	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:21	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:21	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:21	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:21	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.9	30-150		8/3/17 16:21
Decachlorobiphenyl [2]	98.4	30-150		8/3/17 16:21
Tetrachloro-m-xylene [1]	86.6	30-150		8/3/17 16:21
Tetrachloro-m-xylene [2]	87.5	30-150		8/3/17 16:21

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-3 Sampled: 7/19/2017 14:36

Sample ID: 17G0778-03

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	83.0		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-4 Sampled: 7/19/2017 14:38

Sample ID: 17G0778-04

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	5		SW-846 8082A	7/26/17	8/3/17 16:34	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:34	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:34	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:34	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:34	JMB
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:34	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:34	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:34	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:34	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.5	30-150		8/3/17 16:34
Decachlorobiphenyl [2]	99.2	30-150		8/3/17 16:34
Tetrachloro-m-xylene [1]	91.1	30-150		8/3/17 16:34
Tetrachloro-m-xylene [2]	92.3	30-150		8/3/17 16:34

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-4 Sampled: 7/19/2017 14:38

Sample ID: 17G0778-04

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	70.2		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-80-1 Sampled: 7/19/2017 14:33

Sample ID: 17G0778-05

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	5		SW-846 8082A	7/26/17	8/3/17 16:47	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:47	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:47	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:47	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:47	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:47	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:47	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:47	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:47	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.8	30-150		8/3/17 16:47
Decachlorobiphenyl [2]	91.2	30-150		8/3/17 16:47
Tetrachloro-m-xylene [1]	93.2	30-150		8/3/17 16:47
Tetrachloro-m-xylene [2]	91.9	30-150		8/3/17 16:47

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-80-1 Sampled: 7/19/2017 14:33

Sample ID: 17G0778-05

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	96.8		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-80-2 Sampled: 7/19/2017 14:34

Sample ID: 17G0778-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:00	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:00	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:00	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:00	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:00	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:00	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:00	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:00	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:00	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.7	30-150		8/3/17 17:00
Decachlorobiphenyl [2]	86.5	30-150		8/3/17 17:00
Tetrachloro-m-xylene [1]	86.9	30-150		8/3/17 17:00
Tetrachloro-m-xylene [2]	87.9	30-150		8/3/17 17:00

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-80-2 Sampled: 7/19/2017 14:34

Sample ID: 17G0778-06

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	95.6		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-80-3 Sampled: 7/19/2017 14:35

Sample ID: 17G0778-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:12	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:12	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:12	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:12	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:12	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:12	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:12	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:12	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:12	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.1	30-150		8/3/17 17:12
Decachlorobiphenyl [2]	88.1	30-150		8/3/17 17:12
Tetrachloro-m-xylene [1]	86.4	30-150		8/3/17 17:12
Tetrachloro-m-xylene [2]	83.6	30-150		8/3/17 17:12

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-80-3 Sampled: 7/19/2017 14:35

Sample ID: 17G0778-07

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	92.3		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-80-4 Sampled: 7/19/2017 14:36

Sample ID: 17G0778-08

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	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:25	JMB
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:25	JMB
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:25	JMB
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:25	JMB
Aroclor-1248 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:25	JMB
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:25	JMB
Aroclor-1260 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:25	JMB
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:25	JMB
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:25	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.0	30-150		8/3/17 17:25
Decachlorobiphenyl [2]	78.1	30-150		8/3/17 17:25
Tetrachloro-m-xylene [1]	73.6	30-150		8/3/17 17:25
Tetrachloro-m-xylene [2]	64.2	30-150		8/3/17 17:25

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-80-4 Sampled: 7/19/2017 14:36

Sample ID: 17G0778-08

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	58.1		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-72-1 Sampled: 7/19/2017 14:55

Sample ID: 17G0778-09

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	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:17	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:17	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:17	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:17	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:17	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:17	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:17	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:17	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:17	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.4	30-150		8/3/17 18:17
Decachlorobiphenyl [2]	92.8	30-150		8/3/17 18:17
Tetrachloro-m-xylene [1]	89.3	30-150		8/3/17 18:17
Tetrachloro-m-xylene [2]	84.1	30-150		8/3/17 18:17

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-72-1 Sampled: 7/19/2017 14:55

Sample ID: 17G0778-09

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	92.2		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-72-2 Sampled: 7/19/2017 14:57

Sample ID: 17G0778-10

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	5		SW-846 8082A	7/26/17	8/3/17 18:30	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:30	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:30	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:30	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:30	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:30	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:30	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:30	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:30	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.6	30-150		8/3/17 18:30
Decachlorobiphenyl [2]	86.1	30-150		8/3/17 18:30
Tetrachloro-m-xylene [1]	84.0	30-150		8/3/17 18:30
Tetrachloro-m-xylene [2]	79.9	30-150		8/3/17 18:30

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-72-2 Sampled: 7/19/2017 14:57

Sample ID: 17G0778-10

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	90.9		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-72-3 Sampled: 7/19/2017 14:59

Sample ID: 17G0778-11

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	5		SW-846 8082A	7/26/17	8/3/17 18:43	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:43	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:43	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:43	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:43	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:43	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:43	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:43	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:43	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.3	30-150		8/3/17 18:43
Decachlorobiphenyl [2]	92.2	30-150		8/3/17 18:43
Tetrachloro-m-xylene [1]	88.5	30-150		8/3/17 18:43
Tetrachloro-m-xylene [2]	86.8	30-150		8/3/17 18:43

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-72-3 Sampled: 7/19/2017 14:59

Sample ID: 17G0778-11

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	76.3		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-1 Sampled: 7/19/2017 14:45

Sample ID: 17G0778-12

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	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:56	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:56	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:56	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:56	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:56	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:56	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:56	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:56	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:56	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.7	30-150		8/3/17 18:56
Decachlorobiphenyl [2]	98.8	30-150		8/3/17 18:56
Tetrachloro-m-xylene [1]	93.5	30-150		8/3/17 18:56
Tetrachloro-m-xylene [2]	90.3	30-150		8/3/17 18:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-1 Sampled: 7/19/2017 14:45

Sample ID: 17G0778-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.2		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-2A Sampled: 7/19/2017 14:46

Sample ID: 17G0778-13

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	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:08	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:08	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:08	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:08	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:08	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:08	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:08	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:08	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:08	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.7	30-150		8/3/17 19:08
Decachlorobiphenyl [2]	97.3	30-150		8/3/17 19:08
Tetrachloro-m-xylene [1]	97.2	30-150		8/3/17 19:08
Tetrachloro-m-xylene [2]	93.3	30-150		8/3/17 19:08

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-2A Sampled: 7/19/2017 14:46

Sample ID: 17G0778-13

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	84.5		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-2B Sampled: 7/19/2017 14:47

Sample ID: 17G0778-14

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	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Acenaphthylene	0.49	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Anthracene	0.47	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Benzo(a)anthracene	1.2	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Benzo(a)pyrene	1.3	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Benzo(b)fluoranthene	1.9	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Benzo(g,h,i)perylene	1.6	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Benzo(k)fluoranthene	0.66	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Chrysene	1.9	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Dibenz(a,h)anthracene	0.40	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Fluoranthene	2.0	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Fluorene	ND	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Indeno(1,2,3-cd)pyrene	1.4	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
2-Methylnaphthalene	1.6	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Naphthalene	2.7	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Phenanthrene	2.1	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Pyrene	2.1	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	45.0	30-130		7/28/17 20:26
2-Fluorobiphenyl	42.7	30-130		7/28/17 20:26
p-Terphenyl-d14	47.8	30-130		7/28/17 20:26

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-2B Sampled: 7/19/2017 14:47

Sample ID: 17G0778-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	670	150	mg/Kg dry	5		CTDEP ETPH	7/26/17	7/27/17 20:28	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	60.4	50-150		7/27/17 20:28

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-2B Sampled: 7/19/2017 14:47

Sample ID: 17G0778-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	55	3.5	mg/Kg dry	1		SW-846 6010C-D	7/21/17	7/24/17 18:05	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-2B Sampled: 7/19/2017 14:47

Sample ID: 17G0778-14

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	68.3		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-3 Sampled: 7/19/2017 14:48

Sample ID: 17G0778-15

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	5		SW-846 8082A	7/26/17	8/3/17 19:21	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:21	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:21	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:21	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:21	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:21	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:21	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:21	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:21	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.7	30-150		8/3/17 19:21
Decachlorobiphenyl [2]	72.1	30-150		8/3/17 19:21
Tetrachloro-m-xylene [1]	70.8	30-150		8/3/17 19:21
Tetrachloro-m-xylene [2]	70.0	30-150		8/3/17 19:21

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-3 Sampled: 7/19/2017 14:48

Sample ID: 17G0778-15

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	77.0		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-4 Sampled: 7/19/2017 14:49

Sample ID: 17G0778-16

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	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:34	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:34	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:34	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:34	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:34	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:34	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:34	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:34	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:34	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.0	30-150		8/3/17 19:34
Decachlorobiphenyl [2]	97.9	30-150		8/3/17 19:34
Tetrachloro-m-xylene [1]	95.6	30-150		8/3/17 19:34
Tetrachloro-m-xylene [2]	88.9	30-150		8/3/17 19:34

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-4 Sampled: 7/19/2017 14:49

Sample ID: 17G0778-16

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	75.9		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-76-1 Sampled: 7/19/2017 15:01

Sample ID: 17G0778-17

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	0.098	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:47	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:47	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:47	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:47	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:47	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:47	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:47	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:47	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:47	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.4	30-150		8/3/17 19:47
Decachlorobiphenyl [2]	87.5	30-150		8/3/17 19:47
Tetrachloro-m-xylene [1]	83.4	30-150		8/3/17 19:47
Tetrachloro-m-xylene [2]	81.6	30-150		8/3/17 19:47

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-76-1 Sampled: 7/19/2017 15:01

Sample ID: 17G0778-17

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	94.9		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-76-2 Sampled: 7/19/2017 15:03

Sample ID: 17G0778-18

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	5		SW-846 8082A	7/26/17	8/3/17 20:00	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:00	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:00	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:00	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:00	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:00	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:00	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:00	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:00	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.3	30-150		8/3/17 20:00
Decachlorobiphenyl [2]	86.3	30-150		8/3/17 20:00
Tetrachloro-m-xylene [1]	89.6	30-150		8/3/17 20:00
Tetrachloro-m-xylene [2]	85.7	30-150		8/3/17 20:00

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-76-2 Sampled: 7/19/2017 15:03

Sample ID: 17G0778-18

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	92.3		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-76-3 Sampled: 7/19/2017 15:05

Sample ID: 17G0778-19

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	5		SW-846 8082A	7/26/17	8/3/17 20:13	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:13	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:13	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:13	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:13	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:13	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:13	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:13	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:13	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.1	30-150		8/3/17 20:13
Decachlorobiphenyl [2]	75.6	30-150		8/3/17 20:13
Tetrachloro-m-xylene [1]	78.0	30-150		8/3/17 20:13
Tetrachloro-m-xylene [2]	76.8	30-150		8/3/17 20:13

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-76-3 Sampled: 7/19/2017 15:05

Sample ID: 17G0778-19

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	93.1		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-76-4 Sampled: 7/19/2017 15:07

Sample ID: 17G0778-20

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	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:26	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:26	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:26	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:26	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:26	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:26	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:26	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:26	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.0	30-150		8/3/17 20:26
Decachlorobiphenyl [2]	92.0	30-150		8/3/17 20:26
Tetrachloro-m-xylene [1]	93.5	30-150		8/3/17 20:26
Tetrachloro-m-xylene [2]	91.6	30-150		8/3/17 20:26

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-76-4 Sampled: 7/19/2017 15:07

Sample ID: 17G0778-20

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	74.9		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0778-02 [WS-AOC12W-SO-79-2B]	B182589	30.0	1.00	07/26/17
17G0778-14 [WS-AOC12W-SO-83-2B]	B182589	30.0	2.00	07/26/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0778-01 [WS-AOC12W-SO-79-2A]	B182549	07/26/17
17G0778-02 [WS-AOC12W-SO-79-2B]	B182549	07/26/17
17G0778-03 [WS-AOC12W-SO-79-3]	B182549	07/26/17
17G0778-04 [WS-AOC12W-SO-79-4]	B182549	07/26/17
17G0778-05 [WS-AOC12W-SO-80-1]	B182549	07/26/17
17G0778-06 [WS-AOC12W-SO-80-2]	B182549	07/26/17
17G0778-07 [WS-AOC12W-SO-80-3]	B182549	07/26/17
17G0778-08 [WS-AOC12W-SO-80-4]	B182549	07/26/17
17G0778-09 [WS-AOC12W-SO-72-1]	B182549	07/26/17
17G0778-10 [WS-AOC12W-SO-72-2]	B182549	07/26/17
17G0778-11 [WS-AOC12W-SO-72-3]	B182549	07/26/17
17G0778-12 [WS-AOC12W-SO-83-1]	B182549	07/26/17
17G0778-13 [WS-AOC12W-SO-83-2A]	B182549	07/26/17
17G0778-14 [WS-AOC12W-SO-83-2B]	B182549	07/26/17
17G0778-15 [WS-AOC12W-SO-83-3]	B182549	07/26/17
17G0778-16 [WS-AOC12W-SO-83-4]	B182549	07/26/17
17G0778-17 [WS-AOC12W-SO-76-1]	B182549	07/26/17
17G0778-18 [WS-AOC12W-SO-76-2]	B182549	07/26/17
17G0778-19 [WS-AOC12W-SO-76-3]	B182549	07/26/17
17G0778-20 [WS-AOC12W-SO-76-4]	B182549	07/26/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0778-02 [WS-AOC12W-SO-79-2B]	B182194	1.02	50.0	07/21/17
17G0778-14 [WS-AOC12W-SO-83-2B]	B182194	1.05	50.0	07/21/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0778-01 [WS-AOC12W-SO-79-2A]	B182583	10.0	10.0	07/26/17
17G0778-03 [WS-AOC12W-SO-79-3]	B182583	10.4	10.0	07/26/17
17G0778-04 [WS-AOC12W-SO-79-4]	B182583	10.0	10.0	07/26/17
17G0778-05 [WS-AOC12W-SO-80-1]	B182583	10.0	10.0	07/26/17
17G0778-06 [WS-AOC12W-SO-80-2]	B182583	10.1	10.0	07/26/17
17G0778-07 [WS-AOC12W-SO-80-3]	B182583	10.3	10.0	07/26/17
17G0778-08 [WS-AOC12W-SO-80-4]	B182583	10.0	10.0	07/26/17
17G0778-09 [WS-AOC12W-SO-72-1]	B182583	10.1	10.0	07/26/17
17G0778-10 [WS-AOC12W-SO-72-2]	B182583	10.0	10.0	07/26/17
17G0778-11 [WS-AOC12W-SO-72-3]	B182583	10.0	10.0	07/26/17
17G0778-12 [WS-AOC12W-SO-83-1]	B182583	10.1	10.0	07/26/17
17G0778-13 [WS-AOC12W-SO-83-2A]	B182583	10.0	10.0	07/26/17
17G0778-15 [WS-AOC12W-SO-83-3]	B182583	10.2	10.0	07/26/17
17G0778-16 [WS-AOC12W-SO-83-4]	B182583	10.4	10.0	07/26/17
17G0778-17 [WS-AOC12W-SO-76-1]	B182583	10.7	10.0	07/26/17

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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
17G0778-18 [WS-AOC12W-SO-76-2]	B182583	10.6	10.0	07/26/17
17G0778-19 [WS-AOC12W-SO-76-3]	B182583	10.0	10.0	07/26/17
17G0778-20 [WS-AOC12W-SO-76-4]	B182583	10.1	10.0	07/26/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0778-02 [WS-AOC12W-SO-79-2B]	B182604	30.0	1.00	07/26/17
17G0778-14 [WS-AOC12W-SO-83-2B]	B182604	30.0	1.00	07/26/17

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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 B182604 - SW-846 3546										
Blank (B182604-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.42*		mg/Kg wet	3.33		72.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.72*		mg/Kg wet	3.33		81.5	30-130			
LCS (B182604-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	0.860	0.17	mg/Kg wet	1.67		51.6	40-140			
Acenaphthylene	0.832	0.17	mg/Kg wet	1.67		49.9	40-140			
Anthracene	0.914	0.17	mg/Kg wet	1.67		54.8	40-140			
Benzo(a)anthracene	0.935	0.17	mg/Kg wet	1.67		56.1	40-140			
Benzo(a)pyrene	0.940	0.17	mg/Kg wet	1.67		56.4	40-140			
Benzo(b)fluoranthene	0.852	0.17	mg/Kg wet	1.67		51.1	40-140			
Benzo(g,h,i)perylene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140			
Benzo(k)fluoranthene	0.863	0.17	mg/Kg wet	1.67		51.8	40-140			
Chrysene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Dibenz(a,h)anthracene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140			
Fluoranthene	0.889	0.17	mg/Kg wet	1.67		53.3	40-140			
Fluorene	0.876	0.17	mg/Kg wet	1.67		52.6	40-140			
Indeno(1,2,3-cd)pyrene	0.984	0.17	mg/Kg wet	1.67		59.1	40-140			
2-Methylnaphthalene	0.851	0.17	mg/Kg wet	1.67		51.0	40-140			
Naphthalene	0.836	0.17	mg/Kg wet	1.67		50.1	40-140			
Phenanthrene	0.915	0.17	mg/Kg wet	1.67		54.9	40-140			
Pyrene	0.887	0.17	mg/Kg wet	1.67		53.2	40-140			
Surrogate: Nitrobenzene-d5	*1.92*		mg/Kg wet	3.33		57.6	30-130			
Surrogate: 2-Fluorobiphenyl	*1.93*		mg/Kg wet	3.33		57.9	30-130			
Surrogate: p-Terphenyl-d14	*2.13*		mg/Kg wet	3.33		63.8	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 B182604 - SW-846 3546										
LCS Dup (B182604-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	19.3	30	
Acenaphthylene	1.02	0.17	mg/Kg wet	1.67		61.1	40-140	20.0	30	
Anthracene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140	20.1	30	
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	19.2	30	
Benzo(a)pyrene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	17.1	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	17.2	30	
Benzo(g,h,i)perylene	1.35	0.17	mg/Kg wet	1.67		81.1	40-140	20.0	30	
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140	18.4	30	
Chrysene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140	17.4	30	
Dibenz(a,h)anthracene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140	20.4	30	
Fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140	22.5	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.6	40-140	19.0	30	
Indeno(1,2,3-cd)pyrene	1.27	0.17	mg/Kg wet	1.67		76.0	40-140	25.1	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	20.1	30	
Naphthalene	1.01	0.17	mg/Kg wet	1.67		60.5	40-140	18.8	30	
Phenanthrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	18.7	30	
Pyrene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	23.2	30	
Surrogate: Nitrobenzene-d5	*2.33*		mg/Kg wet	3.33		70.0	30-130			
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/Kg wet	3.33		69.9	30-130			
Surrogate: p-Terphenyl-d14	*2.60*		mg/Kg wet	3.33		78.0	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 B182583 - SW-846 3540C										
Blank (B182583-BLK1)				Prepared: 07/26/17 Analyzed: 08/03/17						
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	*0.170*		mg/Kg wet	0.200		85.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.172*		mg/Kg wet	0.200		85.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.165*		mg/Kg wet	0.200		82.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.163*		mg/Kg wet	0.200		81.3	30-150			
LCS (B182583-BS1)				Prepared: 07/26/17 Analyzed: 08/03/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.1	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.8	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		86.1	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		83.5	40-140			
Surrogate: Decachlorobiphenyl	*0.189*		mg/Kg wet	0.200		94.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.191*		mg/Kg wet	0.200		95.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		85.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.168*		mg/Kg wet	0.200		84.2	30-150			
LCS Dup (B182583-BSD1)				Prepared: 07/26/17 Analyzed: 08/03/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.8	40-140	1.88	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		92.8	40-140	4.48	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		84.6	40-140	1.82	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		83.2	40-140	0.430	30	
Surrogate: Decachlorobiphenyl	*0.184*		mg/Kg wet	0.200		92.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.185*		mg/Kg wet	0.200		92.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.176*		mg/Kg wet	0.200		87.8	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 B182583 - SW-846 3540C											
Matrix Spike (B182583-MS1)		**Source: 17G0778-01**		Prepared: 07/26/17 Analyzed: 08/03/17							
Aroclor-1016	0.21	0.11	mg/Kg dry	0.214	ND	101		40-140			
Aroclor-1016 [2C]	0.23	0.11	mg/Kg dry	0.214	ND	109		40-140			
Aroclor-1260	0.21	0.11	mg/Kg dry	0.214	ND	96.1		40-140			
Aroclor-1260 [2C]	0.21	0.11	mg/Kg dry	0.214	ND	96.4		40-140			
Surrogate: Decachlorobiphenyl	*0.194*		mg/Kg dry	0.214		90.9		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.199*		mg/Kg dry	0.214		93.1		30-150			
Surrogate: Tetrachloro-m-xylene	*0.191*		mg/Kg dry	0.214		89.4		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.180*		mg/Kg dry	0.214		84.2		30-150			
Matrix Spike Dup (B182583-MSD1)		**Source: 17G0778-01**		Prepared: 07/26/17 Analyzed: 08/03/17							
Aroclor-1016	0.23	0.11	mg/Kg dry	0.212	ND	109		40-140	7.04	50	
Aroclor-1016 [2C]	0.30	0.11	mg/Kg dry	0.212	ND	**144**	*	40-140	26.7	50	MS-22
Aroclor-1260	0.22	0.11	mg/Kg dry	0.212	ND	104		40-140	6.88	50	
Aroclor-1260 [2C]	0.22	0.11	mg/Kg dry	0.212	ND	105		40-140	7.31	50	
Surrogate: Decachlorobiphenyl	*0.199*		mg/Kg dry	0.212		94.0		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.200*		mg/Kg dry	0.212		94.3		30-150			
Surrogate: Tetrachloro-m-xylene	*0.204*		mg/Kg dry	0.212		96.2		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.192*		mg/Kg dry	0.212		90.9		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 B182589 - SW-846 3546										
Blank (B182589-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.17*		mg/Kg wet	3.33		95.1	50-150			
LCS (B182589-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	32.7	10	mg/Kg wet	33.3		98.1	60-120			
Surrogate: o-Terphenyl	*2.50*		mg/Kg wet	3.33		75.1	50-150			
LCS Dup (B182589-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	29.7	10	mg/Kg wet	33.3		89.0	60-120	9.67	30	
Surrogate: o-Terphenyl	*2.58*		mg/Kg wet	3.33		77.4	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 B182194 - SW-846 3050B										
Blank (B182194-BLK1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B182194-BS1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	51.6	5.0	mg/Kg wet	57.0		90.5	77.8-122.1			
LCS Dup (B182194-BSD1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	51.2	4.9	mg/Kg wet	57.0		89.9	77.8-122.1	0.723	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 B182549 - % Solids										
Duplicate (B182549-DUP7)		**Source: 17G0778-19**		Prepared: 07/26/17 Analyzed: 07/27/17						
% Solids	93.1		% Wt		93.1			0.00	20	
Duplicate (B182549-DUP8)		**Source: 17G0778-20**		Prepared: 07/26/17 Analyzed: 07/27/17						
% Solids	72.9		% Wt		74.9			2.71	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182583-BS1 Date(s) Analyzed: 08/03/2017 08/03/2017

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.18	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182583-BSD1 Date(s) Analyzed: 08/03/2017 08/03/2017

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.19	5.4
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182583-MS1 Date(s) Analyzed: 08/03/2017 08/03/2017

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.23	4.4
Aroclor-1260	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.21	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182583-MSD1 Date(s) Analyzed: 08/03/2017 08/03/2017

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.23	
	2	0.000	-0.030	0.030	0.30	26.4
Aroclor-1260	1	0.000	-0.030	0.030	0.22	
	2	0.000	-0.030	0.030	0.22	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-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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

1760778

con-test ANALYTICAL LABORATORY

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Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	Soxhlet PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12W-SO-79-2A	7/19/17	14:32		X	S	V	X								
2	WS-AOC12W-SO-79-2B		14:34							X	X		X			
3	WS-AOC12W-SO-79-3		14:36					X								
4	WS-AOC12W-SO-79-4		14:37					X								
5	WS-AOC12W-SO-80-1		14:33					X								
6	WS-AOC12W-SO-80-2		14:34					X								
7	WS-AOC12W-SO-80-3		14:35					X								
8	WS-AOC12W-SO-80-4		14:36					X								
9	WS-AOC12W-SO-72-1		14:55					X								
10	WS-AOC12W-SO-72-2		14:59					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time:
[signature]	7/19/17 1530
Received by: (signature) Tom Moore	Date/Time: 7/19/17 1530
Relinquished by: (signature) Tom Moore	Date/Time: 7/19/17 1740
Received by: (signature)	Date/Time: 7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
GW RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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1760778

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Sonnet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12W-SO-72-3	7/19/17	14:59		X	S	U	X								
12	WS-AOC12W-SO-83-1		14:45					X								
13	WS-AOC12W-SO-83-2A		14:46					X								
14	WS-AOC12W-SO-83-2B		14:47							X	X		X			
15	WS-AOC12W-SO-83-3		14:48					X								
16	WS-AOC12W-SO-83-4		14:49					X								
17	WS-AOC12W-SO-76-1		15:01					X								
18	WS-AOC12W-SO-76-2		15:03					X								
19	WS-AOC12-SO-76-3		15:05					X								
20	WS-AOC12-SO-76-4		15:07					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time:
[signature]	7/19/17 1530
Received by: (signature)	Date/Time:
Tom Mair	7/19/17 1530
Relinquished by: (signature)	Date/Time:
Tom Mair	7/19/17 1740
Received by: (signature) 3.4	Date/Time:
[signature]	7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

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F: 413-525-6405
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Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By JM Date 7/19/17 Time 1740

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 # 2 Actual Temp - 3.4, 2.9, 4.1
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? ____
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-	~~20~~	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	20
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

D:\HPCHEM\1\DATA\A072717.SEC\A0727055.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	7/27/17
Data File Name	A0727055.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	429971	456453	-6
c - 10	1.49	436660	456453	-4
c - 12	2.22	455312	456453	0
c - 14	2.88	461259	456453	1
c - 16	3.48	469293	456453	3
c - 18	4.05	462720	456453	1
o-Terphenyl	4.36	532470	456453	
c - 20	4.66	470640	456453	3
c - 22	5.18	476652	456453	4
c - 24	5.62	443852	456453	-3
c - 26	6.01	468554	456453	3
c - 28	6.37	463829	456453	2
c - 30	6.70	457044	456453	0
c - 32	7.01	446255	456453	-2
c - 34	7.30	450835	456453	-1
c - 36	7.58	453922	456453	-1

* One compound allowed %D <= 50%

Samples

17G0775-13
17G0679-08@20X
17G0772-08@10X
17G0778-14@5X
17G0779-07@10X
17G0779-12@10X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

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

Project Number: 17G0778

Laboratory Sample ID(s):

17G0778-01 thru 17G0778-20

Sample Date(s):

07/19/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A, SW-846 8270D

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

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

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

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

Printed Name: **Lisa A. Worthington** **Date:** **08/04/17**

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

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

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

August 3, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G0779

Enclosed are results of analyses for samples received by the laboratory on July 19, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

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

REPORT DATE: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0779

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-SO-86-1	17G0779-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-86-2	17G0779-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-86-3	17G0779-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-86-4	17G0779-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-87-1	17G0779-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-87-2A	17G0779-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-87-2B	17G0779-07	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 8270D	
WS-AOC12W-SO-87-3	17G0779-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-87-4	17G0779-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-DUP-8	17G0779-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-DUP-9A	17G0779-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-DUP-9B	17G0779-12	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 8270D	
WS-AOC12W-SO-DUP-10	17G0779-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-DUP-11	17G0779-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-DUP-12	17G0779-15	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

For method 6010, only As was requested and reported.

For method 8270, only PAHs were requested and reported.

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

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

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

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-86-1 Sampled: 7/19/2017 15:01

Sample ID: 17G0779-01

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	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:01	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:01	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:01	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:01	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:01	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:01	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:01	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:01	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:01	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	103	30-150		8/3/17 12:01
Decachlorobiphenyl [2]	103	30-150		8/3/17 12:01
Tetrachloro-m-xylene [1]	102	30-150		8/3/17 12:01
Tetrachloro-m-xylene [2]	102	30-150		8/3/17 12:01

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-86-1 Sampled: 7/19/2017 15:01

Sample ID: 17G0779-01

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	97.4		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-86-2 Sampled: 7/19/2017 15:02

Sample ID: 17G0779-02

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	5		SW-846 8082A	7/26/17	8/3/17 12:14	PJG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:14	PJG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:14	PJG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:14	PJG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:14	PJG
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:14	PJG
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:14	PJG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:14	PJG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:14	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	104	30-150		8/3/17 12:14
Decachlorobiphenyl [2]	107	30-150		8/3/17 12:14
Tetrachloro-m-xylene [1]	111	30-150		8/3/17 12:14
Tetrachloro-m-xylene [2]	112	30-150		8/3/17 12:14

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-86-2 Sampled: 7/19/2017 15:02

Sample ID: 17G0779-02

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	96.4		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-86-3 Sampled: 7/19/2017 15:03

Sample ID: 17G0779-03

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	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:26	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:26	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:26	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:26	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:26	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:26	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:26	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:26	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:26	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.9	30-150		8/3/17 12:26
Decachlorobiphenyl [2]	99.0	30-150		8/3/17 12:26
Tetrachloro-m-xylene [1]	98.5	30-150		8/3/17 12:26
Tetrachloro-m-xylene [2]	100	30-150		8/3/17 12:26

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-86-3 Sampled: 7/19/2017 15:03

Sample ID: 17G0779-03

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	90.8		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-86-4 Sampled: 7/19/2017 15:04

Sample ID: 17G0779-04

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	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:39	PJG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:39	PJG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:39	PJG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:39	PJG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:39	PJG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:39	PJG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:39	PJG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:39	PJG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:39	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.5	30-150		8/3/17 12:39
Decachlorobiphenyl [2]	96.0	30-150		8/3/17 12:39
Tetrachloro-m-xylene [1]	98.6	30-150		8/3/17 12:39
Tetrachloro-m-xylene [2]	99.6	30-150		8/3/17 12:39

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-86-4 Sampled: 7/19/2017 15:04

Sample ID: 17G0779-04

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	71.8		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-1 Sampled: 7/19/2017 15:05

Sample ID: 17G0779-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:52	PJG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:52	PJG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:52	PJG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:52	PJG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:52	PJG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:52	PJG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:52	PJG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:52	PJG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:52	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	103	30-150		8/3/17 12:52
Decachlorobiphenyl [2]	108	30-150		8/3/17 12:52
Tetrachloro-m-xylene [1]	116	30-150		8/3/17 12:52
Tetrachloro-m-xylene [2]	119	30-150		8/3/17 12:52

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-1 Sampled: 7/19/2017 15:05

Sample ID: 17G0779-05

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	93.7		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-2A Sampled: 7/19/2017 15:06

Sample ID: 17G0779-06

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	0.099	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:04	PJG
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:04	PJG
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:04	PJG
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:04	PJG
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:04	PJG
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:04	PJG
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:04	PJG
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:04	PJG
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:04	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.4	30-150		8/3/17 13:04
Decachlorobiphenyl [2]	90.1	30-150		8/3/17 13:04
Tetrachloro-m-xylene [1]	94.5	30-150		8/3/17 13:04
Tetrachloro-m-xylene [2]	96.5	30-150		8/3/17 13:04

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-2A Sampled: 7/19/2017 15:06

Sample ID: 17G0779-06

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	95.8		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-2B Sampled: 7/19/2017 15:07

Sample ID: 17G0779-07

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	7/26/17	7/28/17 20:51	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Benzo(a)anthracene	0.63	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Benzo(a)pyrene	0.71	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Benzo(b)fluoranthene	0.86	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Benzo(g,h,i)perylene	0.72	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Benzo(k)fluoranthene	0.27	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Chrysene	0.86	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Fluoranthene	0.97	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Indeno(1,2,3-cd)pyrene	0.62	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Naphthalene	0.22	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Phenanthrene	0.55	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Pyrene	1.3	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	45.7	30-130		7/28/17 20:51
2-Fluorobiphenyl	45.8	30-130		7/28/17 20:51
p-Terphenyl-d14	52.6	30-130		7/28/17 20:51

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-2B Sampled: 7/19/2017 15:07

Sample ID: 17G0779-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	450	230	mg/Kg dry	10		CTDEP ETPH	7/26/17	7/27/17 20:46	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	80.6	50-150		7/27/17 20:46

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-2B Sampled: 7/19/2017 15:07

Sample ID: 17G0779-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	39	2.7	mg/Kg dry	1		SW-846 6010C-D	7/21/17	7/24/17 18:05	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-2B Sampled: 7/19/2017 15:07

Sample ID: 17G0779-07

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	88.0		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-3 Sampled: 7/19/2017 15:08

Sample ID: 17G0779-08

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	5		SW-846 8082A	7/26/17	8/3/17 13:17	PJG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:17	PJG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:17	PJG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:17	PJG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:17	PJG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:17	PJG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:17	PJG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:17	PJG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:17	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.3	30-150		8/3/17 13:17
Decachlorobiphenyl [2]	88.9	30-150		8/3/17 13:17
Tetrachloro-m-xylene [1]	93.5	30-150		8/3/17 13:17
Tetrachloro-m-xylene [2]	95.9	30-150		8/3/17 13:17

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-3 Sampled: 7/19/2017 15:08

Sample ID: 17G0779-08

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	83.4		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-4 Sampled: 7/19/2017 15:09

Sample ID: 17G0779-09

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	0.16	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:30	PJG
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:30	PJG
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:30	PJG
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:30	PJG
Aroclor-1248 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:30	PJG
Aroclor-1254 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:30	PJG
Aroclor-1260 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:30	PJG
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:30	PJG
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:30	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.7	30-150		8/3/17 13:30
Decachlorobiphenyl [2]	103	30-150		8/3/17 13:30
Tetrachloro-m-xylene [1]	101	30-150		8/3/17 13:30
Tetrachloro-m-xylene [2]	105	30-150		8/3/17 13:30

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-4 Sampled: 7/19/2017 15:09

Sample ID: 17G0779-09

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	61.7		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-8 Sampled: 7/19/2017 00:00

Sample ID: 17G0779-10

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	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:55	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:55	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:55	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:55	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:55	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:55	PJG
Aroclor-1260 [2]	0.12	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:55	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:55	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:55	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.5	30-150		8/3/17 13:55
Decachlorobiphenyl [2]	90.7	30-150		8/3/17 13:55
Tetrachloro-m-xylene [1]	97.1	30-150		8/3/17 13:55
Tetrachloro-m-xylene [2]	98.9	30-150		8/3/17 13:55

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-8 Sampled: 7/19/2017 00:00

Sample ID: 17G0779-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.6		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-9A Sampled: 7/19/2017 00:00

Sample ID: 17G0779-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:08	PJG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:08	PJG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:08	PJG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:08	PJG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:08	PJG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:08	PJG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:08	PJG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:08	PJG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:08	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.7	30-150		8/3/17 14:08
Decachlorobiphenyl [2]	90.8	30-150		8/3/17 14:08
Tetrachloro-m-xylene [1]	95.2	30-150		8/3/17 14:08
Tetrachloro-m-xylene [2]	98.9	30-150		8/3/17 14:08

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-9A Sampled: 7/19/2017 00:00

Sample ID: 17G0779-11

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	91.4		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-9B Sampled: 7/19/2017 00:00

Sample ID: 17G0779-12

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	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Chrysene	0.37	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Phenanthrene	0.33	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	38.3	30-130		7/28/17 21:15
2-Fluorobiphenyl	37.7	30-130		7/28/17 21:15
p-Terphenyl-d14	45.9	30-130		7/28/17 21:15

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-9B Sampled: 7/19/2017 00:00

Sample ID: 17G0779-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1000	240	mg/Kg dry	10		CTDEP ETPH	7/26/17	7/28/17 0:01	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	105	50-150		7/28/17 0:01

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-9B Sampled: 7/19/2017 00:00

Sample ID: 17G0779-12

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	42	3.0	mg/Kg dry	1		SW-846 6010C-D	7/21/17	7/24/17 18:05	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-9B Sampled: 7/19/2017 00:00

Sample ID: 17G0779-12

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	82.3		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-10 Sampled: 7/19/2017 00:00

Sample ID: 17G0779-13

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	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:20	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:20	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:20	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:20	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:20	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:20	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:20	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:20	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:20	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.5	30-150		8/3/17 14:20
Decachlorobiphenyl [2]	93.2	30-150		8/3/17 14:20
Tetrachloro-m-xylene [1]	95.6	30-150		8/3/17 14:20
Tetrachloro-m-xylene [2]	98.0	30-150		8/3/17 14:20

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-10 Sampled: 7/19/2017 00:00

Sample ID: 17G0779-13

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	93.6		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-11 Sampled: 7/19/2017 00:00

Sample ID: 17G0779-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:33	PJG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:33	PJG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:33	PJG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:33	PJG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:33	PJG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:33	PJG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:33	PJG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:33	PJG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:33	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.9	30-150		8/3/17 14:33
Decachlorobiphenyl [2]	73.0	30-150		8/3/17 14:33
Tetrachloro-m-xylene [1]	73.6	30-150		8/3/17 14:33
Tetrachloro-m-xylene [2]	75.0	30-150		8/3/17 14:33

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-11 Sampled: 7/19/2017 00:00

Sample ID: 17G0779-14

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	93.6		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-12 Sampled: 7/19/2017 00:00

Sample ID: 17G0779-15

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	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:46	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:46	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:46	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:46	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:46	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:46	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:46	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:46	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:46	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.3	30-150		8/3/17 14:46
Decachlorobiphenyl [2]	90.3	30-150		8/3/17 14:46
Tetrachloro-m-xylene [1]	96.2	30-150		8/3/17 14:46
Tetrachloro-m-xylene [2]	97.0	30-150		8/3/17 14:46

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-12 Sampled: 7/19/2017 00:00

Sample ID: 17G0779-15

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.3		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0779-07 [WS-AOC12W-SO-87-2B]	B182589	30.0	2.00	07/26/17
17G0779-12 [WS-AOC12W-SO-DUP-9B]	B182589	30.0	2.00	07/26/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0779-01 [WS-AOC12W-SO-86-1]	B182552	07/26/17
17G0779-02 [WS-AOC12W-SO-86-2]	B182552	07/26/17
17G0779-03 [WS-AOC12W-SO-86-3]	B182552	07/26/17
17G0779-04 [WS-AOC12W-SO-86-4]	B182552	07/26/17
17G0779-05 [WS-AOC12W-SO-87-1]	B182552	07/26/17
17G0779-06 [WS-AOC12W-SO-87-2A]	B182552	07/26/17
17G0779-07 [WS-AOC12W-SO-87-2B]	B182552	07/26/17
17G0779-08 [WS-AOC12W-SO-87-3]	B182552	07/26/17
17G0779-09 [WS-AOC12W-SO-87-4]	B182552	07/26/17
17G0779-10 [WS-AOC12W-SO-DUP-8]	B182552	07/26/17
17G0779-11 [WS-AOC12W-SO-DUP-9A]	B182552	07/26/17
17G0779-12 [WS-AOC12W-SO-DUP-9B]	B182552	07/26/17
17G0779-13 [WS-AOC12W-SO-DUP-10]	B182552	07/26/17
17G0779-14 [WS-AOC12W-SO-DUP-11]	B182552	07/26/17
17G0779-15 [WS-AOC12W-SO-DUP-12]	B182552	07/26/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0779-07 [WS-AOC12W-SO-87-2B]	B182194	1.05	50.0	07/21/17
17G0779-12 [WS-AOC12W-SO-DUP-9B]	B182194	1.01	50.0	07/21/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0779-01 [WS-AOC12W-SO-86-1]	B182509	10.1	10.0	07/26/17
17G0779-02 [WS-AOC12W-SO-86-2]	B182509	10.8	10.0	07/26/17
17G0779-03 [WS-AOC12W-SO-86-3]	B182509	10.8	10.0	07/26/17
17G0779-04 [WS-AOC12W-SO-86-4]	B182509	10.6	10.0	07/26/17
17G0779-05 [WS-AOC12W-SO-87-1]	B182509	10.0	10.0	07/26/17
17G0779-06 [WS-AOC12W-SO-87-2A]	B182509	10.5	10.0	07/26/17
17G0779-08 [WS-AOC12W-SO-87-3]	B182509	10.4	10.0	07/26/17
17G0779-09 [WS-AOC12W-SO-87-4]	B182509	10.1	10.0	07/26/17
17G0779-10 [WS-AOC12W-SO-DUP-8]	B182509	10.3	10.0	07/26/17
17G0779-11 [WS-AOC12W-SO-DUP-9A]	B182509	10.0	10.0	07/26/17
17G0779-13 [WS-AOC12W-SO-DUP-10]	B182509	10.7	10.0	07/26/17
17G0779-14 [WS-AOC12W-SO-DUP-11]	B182509	10.0	10.0	07/26/17
17G0779-15 [WS-AOC12W-SO-DUP-12]	B182509	10.4	10.0	07/26/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0779-07 [WS-AOC12W-SO-87-2B]	B182604	30.0	1.00	07/26/17
17G0779-12 [WS-AOC12W-SO-DUP-9B]	B182604	30.0	1.00	07/26/17

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Sample Extraction Data

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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 B182604 - SW-846 3546										
Blank (B182604-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.42*		mg/Kg wet	3.33		72.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.72*		mg/Kg wet	3.33		81.5	30-130			
LCS (B182604-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	0.860	0.17	mg/Kg wet	1.67		51.6	40-140			
Acenaphthylene	0.832	0.17	mg/Kg wet	1.67		49.9	40-140			
Anthracene	0.914	0.17	mg/Kg wet	1.67		54.8	40-140			
Benzo(a)anthracene	0.935	0.17	mg/Kg wet	1.67		56.1	40-140			
Benzo(a)pyrene	0.940	0.17	mg/Kg wet	1.67		56.4	40-140			
Benzo(b)fluoranthene	0.852	0.17	mg/Kg wet	1.67		51.1	40-140			
Benzo(g,h,i)perylene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140			
Benzo(k)fluoranthene	0.863	0.17	mg/Kg wet	1.67		51.8	40-140			
Chrysene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Dibenz(a,h)anthracene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140			
Fluoranthene	0.889	0.17	mg/Kg wet	1.67		53.3	40-140			
Fluorene	0.876	0.17	mg/Kg wet	1.67		52.6	40-140			
Indeno(1,2,3-cd)pyrene	0.984	0.17	mg/Kg wet	1.67		59.1	40-140			
2-Methylnaphthalene	0.851	0.17	mg/Kg wet	1.67		51.0	40-140			
Naphthalene	0.836	0.17	mg/Kg wet	1.67		50.1	40-140			
Phenanthrene	0.915	0.17	mg/Kg wet	1.67		54.9	40-140			
Pyrene	0.887	0.17	mg/Kg wet	1.67		53.2	40-140			
Surrogate: Nitrobenzene-d5	*1.92*		mg/Kg wet	3.33		57.6	30-130			
Surrogate: 2-Fluorobiphenyl	*1.93*		mg/Kg wet	3.33		57.9	30-130			
Surrogate: p-Terphenyl-d14	*2.13*		mg/Kg wet	3.33		63.8	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 B182604 - SW-846 3546										
LCS Dup (B182604-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	19.3	30	
Acenaphthylene	1.02	0.17	mg/Kg wet	1.67		61.1	40-140	20.0	30	
Anthracene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140	20.1	30	
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	19.2	30	
Benzo(a)pyrene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	17.1	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	17.2	30	
Benzo(g,h,i)perylene	1.35	0.17	mg/Kg wet	1.67		81.1	40-140	20.0	30	
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140	18.4	30	
Chrysene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140	17.4	30	
Dibenz(a,h)anthracene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140	20.4	30	
Fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140	22.5	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.6	40-140	19.0	30	
Indeno(1,2,3-cd)pyrene	1.27	0.17	mg/Kg wet	1.67		76.0	40-140	25.1	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	20.1	30	
Naphthalene	1.01	0.17	mg/Kg wet	1.67		60.5	40-140	18.8	30	
Phenanthrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	18.7	30	
Pyrene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	23.2	30	
Surrogate: Nitrobenzene-d5	*2.33*		mg/Kg wet	3.33		70.0	30-130			
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/Kg wet	3.33		69.9	30-130			
Surrogate: p-Terphenyl-d14	*2.60*		mg/Kg wet	3.33		78.0	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 B182509 - SW-846 3540C										
Blank (B182509-BLK1)				Prepared: 07/26/17 Analyzed: 07/31/17						
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	*0.193*		mg/Kg wet	0.200		96.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.207*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	*0.182*		mg/Kg wet	0.200		90.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.188*		mg/Kg wet	0.200		94.1	30-150			
LCS (B182509-BS1)				Prepared: 07/26/17 Analyzed: 07/31/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.6	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.1	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.3	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		85.9	40-140			
Surrogate: Decachlorobiphenyl	*0.198*		mg/Kg wet	0.200		99.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.212*		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.191*		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.196*		mg/Kg wet	0.200		98.1	30-150			
LCS Dup (B182509-BSD1)				Prepared: 07/26/17 Analyzed: 07/31/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		83.5	40-140	1.37	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.6	40-140	0.506	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		75.1	40-140	1.69	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		84.6	40-140	1.55	30	
Surrogate: Decachlorobiphenyl	*0.193*		mg/Kg wet	0.200		96.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.209*		mg/Kg wet	0.200		105	30-150			
Surrogate: Tetrachloro-m-xylene	*0.185*		mg/Kg wet	0.200		92.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.196*		mg/Kg wet	0.200		97.8	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 B182509 - SW-846 3540C										
Matrix Spike (B182509-MS1)		**Source: 17G0779-01**		Prepared: 07/26/17 Analyzed: 08/03/17						
Aroclor-1016	0.21	0.10	mg/Kg dry	0.203	ND	102	40-140			
Aroclor-1016 [2C]	0.23	0.10	mg/Kg dry	0.203	ND	111	40-140			
Aroclor-1260	0.17	0.10	mg/Kg dry	0.203	ND	81.8	40-140			
Aroclor-1260 [2C]	0.17	0.10	mg/Kg dry	0.203	ND	85.0	40-140			
Surrogate: Decachlorobiphenyl	*0.168*		mg/Kg dry	0.203		82.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.181*		mg/Kg dry	0.203		88.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.195*		mg/Kg dry	0.203		95.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.201*		mg/Kg dry	0.203		98.9	30-150			
Matrix Spike Dup (B182509-MSD1)		**Source: 17G0779-01**		Prepared: 07/26/17 Analyzed: 08/03/17						
Aroclor-1016	0.21	0.10	mg/Kg dry	0.203	ND	106	40-140	3.53	50	
Aroclor-1016 [2C]	0.23	0.10	mg/Kg dry	0.203	ND	114	40-140	2.63	50	
Aroclor-1260	0.17	0.10	mg/Kg dry	0.203	ND	85.3	40-140	4.16	50	
Aroclor-1260 [2C]	0.18	0.10	mg/Kg dry	0.203	ND	90.9	40-140	6.67	50	
Surrogate: Decachlorobiphenyl	*0.174*		mg/Kg dry	0.203		85.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.186*		mg/Kg dry	0.203		91.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.204*		mg/Kg dry	0.203		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.208*		mg/Kg dry	0.203		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 B182589 - SW-846 3546										
Blank (B182589-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.17*		mg/Kg wet	3.33		95.1	50-150			
LCS (B182589-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	32.7	10	mg/Kg wet	33.3		98.1	60-120			
Surrogate: o-Terphenyl	*2.50*		mg/Kg wet	3.33		75.1	50-150			
LCS Dup (B182589-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	29.7	10	mg/Kg wet	33.3		89.0	60-120	9.67	30	
Surrogate: o-Terphenyl	*2.58*		mg/Kg wet	3.33		77.4	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 B182194 - SW-846 3050B										
Blank (B182194-BLK1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B182194-BS1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	51.6	5.0	mg/Kg wet	57.0		90.5	77.8-122.1			
LCS Dup (B182194-BSD1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	51.2	4.9	mg/Kg wet	57.0		89.9	77.8-122.1	0.723	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 B182552 - % Solids										
Duplicate (B182552-DUP3)		**Source: 17G0779-01**		Prepared: 07/26/17 Analyzed: 07/27/17						
% Solids	97.3		% Wt		97.4			0.103	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-DUP-8

Lab Sample ID: 17G0779-10 Date(s) Analyzed: 08/03/2017 08/03/2017

Instrument ID (1): ECD4 Instrument ID (2): ECD4

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	0.12	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182509-BS1

Date(s) Analyzed: 07/31/2017 07/31/2017

Instrument ID (1): ECD1

Instrument ID (2): ECD1

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.19	11.1
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.17	12.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182509-BSD1 Date(s) Analyzed: 07/31/2017 07/31/2017

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.19	11.1
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.17	12.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182509-MS1 Date(s) Analyzed: 08/03/2017 08/03/2017

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.23	9.1
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182509-MSD1 Date(s) Analyzed: 08/03/2017 08/03/2017

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.23	4.4
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.18	5.7

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FLAG/QUALIFIER SUMMARY

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

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

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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

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

1760779

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12W-SO-86-1	7/19/17	15:01		X	S	U	X								
2	WS-AOC12W-SO-86-2		15:02					X								
3	WS-AOC12W-SO-86-3		15:03					X								
4	WS-AOC12W-SO-86-4		15:04					X								
5	WS-AOC12W-SO-87-1		15:05					X								
6	WS-AOC12W-SO-87-2A		15:06					X								
7	WS-AOC12W-SO-87-2B		15:07							X	X		X			
8	WS-AOC12W-SO-87-3		15:08					X								
9	WS-AOC12W-SO-87-4		15:09					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time:
[signature]	7/18/17 1530
Received by: (signature) Tom Mure	Date/Time: 7/19/17 1530
Relinquished by: (signature) [signature]	Date/Time: 7/19/17 1740
Received by: (signature) 3.4 [signature]	Date/Time: 7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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Fax: 413-525-6405
Email: info@contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
10	WS-AOC12W-SO-DUP-8	7/19/17			X	S	U	X								
11	WS-AOC12W-SO-DUP-9A	7/19/17						X								
12	WS-AOC12W-SO-DUP-9B									X	X		X			
13	WS-AOC12W-SO-DUP-10							X								
14	WS-AOC12W-SO-DUP-11							X								
15	WS-AOC12W-SO-DUP-12							X								
16 (JW)																
17																

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
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T = Sodium Thiosulfate
O = Other (please define)

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time: 7/19/17 1530
Received by: (signature) Tom Mai	Date/Time: 7/19/17 1530
Relinquished by: (signature) Tom Mai	Date/Time: 7/19/17 1740
Received by: (signature)	Date/Time: 7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By JM Date 7/19/17 Time 1740

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 # 2 Actual Temp - 3.4, 2.9, 4.1
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? ____
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-	~~20~~	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	15
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

D:\HPCHEM\1\DATA\A072717.SEC\A0727055.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	7/27/17
Data File Name	A0727055.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	429971	456453	-6
c - 10	1.49	436660	456453	-4
c - 12	2.22	455312	456453	0
c - 14	2.88	461259	456453	1
c - 16	3.48	469293	456453	3
c - 18	4.05	462720	456453	1
o-Terphenyl	4.36	532470	456453	
c - 20	4.66	470640	456453	3
c - 22	5.18	476652	456453	4
c - 24	5.62	443852	456453	-3
c - 26	6.01	468554	456453	3
c - 28	6.37	463829	456453	2
c - 30	6.70	457044	456453	0
c - 32	7.01	446255	456453	-2
c - 34	7.30	450835	456453	-1
c - 36	7.58	453922	456453	-1

* One compound allowed %D <= 50%

Samples

17G0775-13
17G0679-08@20X
17G0772-08@10X
17G0778-14@5X
17G0779-07@10X
17G0779-12@10X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

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

Project Number: 17G0779

Laboratory Sample ID(s):

17G0779-01 thru 17G0779-15

Sample Date(s):

07/19/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A, SW-846 8270D

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

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

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

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

Printed Name: **Lisa A. Worthington** **Date:** **08/03/17**

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

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

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

August 3, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G0865

Enclosed are results of analyses for samples received by the laboratory on July 20, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

REPORT DATE: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0865

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-SO-68-1A	17G0865-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-68-1B	17G0865-02	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC12W-SO-68-2	17G0865-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-68-3	17G0865-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-74-1	17G0865-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-74-2	17G0865-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-74-3	17G0865-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-74-4	17G0865-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-65-1	17G0865-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-65-2	17G0865-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-65-3	17G0865-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-70-1	17G0865-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-70-2A	17G0865-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-70-2B	17G0865-14	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
WS-AOC12W-SO-70-3	17G0865-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-70-4	17G0865-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-59-1	17G0865-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-59-2	17G0865-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-59-3	17G0865-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-63-1A	17G0865-20	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

For method 6010, only As was requested and reported.

For method 8270, only PAHs were requested and reported.

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

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-1A Sampled: 7/20/2017 09:00

Sample ID: 17G0865-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.1	30-150		7/31/17 17:43
Decachlorobiphenyl [2]	74.1	30-150		7/31/17 17:43
Tetrachloro-m-xylene [1]	75.4	30-150		7/31/17 17:43
Tetrachloro-m-xylene [2]	76.8	30-150		7/31/17 17:43

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-1A Sampled: 7/20/2017 09:00

Sample ID: 17G0865-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.1		% Wt	1		SM 2540G	7/28/17	7/28/17 10:26	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-1B Sampled: 7/20/2017 09:02

Sample ID: 17G0865-02

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	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Chrysene	0.25	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Fluoranthene	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
2-Methylnaphthalene	0.33	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Phenanthrene	0.54	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	34.9	30-130		7/31/17 11:48
2-Fluorobiphenyl	32.1	30-130		7/31/17 11:48
p-Terphenyl-d14	32.4	30-130		7/31/17 11:48

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-1B Sampled: 7/20/2017 09:02

Sample ID: 17G0865-02

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	91.1		% Wt	1		SM 2540G	7/28/17	7/28/17 10:26	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-2 Sampled: 7/20/2017 09:04

Sample ID: 17G0865-03

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	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.2	30-150		7/31/17 17:56
Decachlorobiphenyl [2]	72.8	30-150		7/31/17 17:56
Tetrachloro-m-xylene [1]	71.5	30-150		7/31/17 17:56
Tetrachloro-m-xylene [2]	73.6	30-150		7/31/17 17:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-2 Sampled: 7/20/2017 09:04

Sample ID: 17G0865-03

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	92.0		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-3 Sampled: 7/20/2017 09:06

Sample ID: 17G0865-04

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	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1221 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1232 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1242 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1248 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1254 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1260 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1262 [2]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1268 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.2	30-150		7/31/17 18:09
Decachlorobiphenyl [2]	79.9	30-150		7/31/17 18:09
Tetrachloro-m-xylene [1]	84.2	30-150		7/31/17 18:09
Tetrachloro-m-xylene [2]	82.5	30-150		7/31/17 18:09

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-3 Sampled: 7/20/2017 09:06

Sample ID: 17G0865-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	55.0		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-1 Sampled: 7/20/2017 09:00

Sample ID: 17G0865-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.0	30-150		7/31/17 18:22
Decachlorobiphenyl [2]	71.5	30-150		7/31/17 18:22
Tetrachloro-m-xylene [1]	66.3	30-150		7/31/17 18:22
Tetrachloro-m-xylene [2]	68.0	30-150		7/31/17 18:22

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-1 Sampled: 7/20/2017 09:00

Sample ID: 17G0865-05

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	91.5		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-2 Sampled: 7/20/2017 09:01

Sample ID: 17G0865-06

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	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.5	30-150		7/31/17 18:35
Decachlorobiphenyl [2]	74.1	30-150		7/31/17 18:35
Tetrachloro-m-xylene [1]	72.7	30-150		7/31/17 18:35
Tetrachloro-m-xylene [2]	73.1	30-150		7/31/17 18:35

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-2 Sampled: 7/20/2017 09:01

Sample ID: 17G0865-06

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	92.8		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-3 Sampled: 7/20/2017 09:02

Sample ID: 17G0865-07

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	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	59.0	30-150		7/31/17 18:47
Decachlorobiphenyl [2]	54.3	30-150		7/31/17 18:47
Tetrachloro-m-xylene [1]	56.1	30-150		7/31/17 18:47
Tetrachloro-m-xylene [2]	59.1	30-150		7/31/17 18:47

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-3 Sampled: 7/20/2017 09:02

Sample ID: 17G0865-07

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	84.7		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-4 Sampled: 7/20/2017 09:03

Sample ID: 17G0865-08

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	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1262 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.6	30-150		7/31/17 19:00
Decachlorobiphenyl [2]	66.7	30-150		7/31/17 19:00
Tetrachloro-m-xylene [1]	67.9	30-150		7/31/17 19:00
Tetrachloro-m-xylene [2]	68.6	30-150		7/31/17 19:00

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-4 Sampled: 7/20/2017 09:03

Sample ID: 17G0865-08

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	73.1		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-1 Sampled: 7/20/2017 09:17

Sample ID: 17G0865-09

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	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.4	30-150		7/31/17 19:51
Decachlorobiphenyl [2]	77.8	30-150		7/31/17 19:51
Tetrachloro-m-xylene [1]	73.4	30-150		7/31/17 19:51
Tetrachloro-m-xylene [2]	73.8	30-150		7/31/17 19:51

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-1 Sampled: 7/20/2017 09:17

Sample ID: 17G0865-09

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	92.5		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-2 Sampled: 7/20/2017 09:19

Sample ID: 17G0865-10

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	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.7	30-150		7/31/17 20:04
Decachlorobiphenyl [2]	65.5	30-150		7/31/17 20:04
Tetrachloro-m-xylene [1]	64.3	30-150		7/31/17 20:04
Tetrachloro-m-xylene [2]	65.7	30-150		7/31/17 20:04

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-2 Sampled: 7/20/2017 09:19

Sample ID: 17G0865-10

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	90.5		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-3 Sampled: 7/20/2017 09:21

Sample ID: 17G0865-11

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	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1262 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.3	30-150		7/31/17 20:16
Decachlorobiphenyl [2]	74.2	30-150		7/31/17 20:16
Tetrachloro-m-xylene [1]	74.4	30-150		7/31/17 20:16
Tetrachloro-m-xylene [2]	74.9	30-150		7/31/17 20:16

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-3 Sampled: 7/20/2017 09:21

Sample ID: 17G0865-11

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	71.6		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-1 Sampled: 7/20/2017 09:22

Sample ID: 17G0865-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.9	30-150		7/31/17 20:29
Decachlorobiphenyl [2]	65.3	30-150		7/31/17 20:29
Tetrachloro-m-xylene [1]	65.0	30-150		7/31/17 20:29
Tetrachloro-m-xylene [2]	67.1	30-150		7/31/17 20:29

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-1 Sampled: 7/20/2017 09:22

Sample ID: 17G0865-12

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	91.6		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-2A Sampled: 7/20/2017 09:23

Sample ID: 17G0865-13

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	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.7	30-150		7/31/17 20:42
Decachlorobiphenyl [2]	55.7	30-150		7/31/17 20:42
Tetrachloro-m-xylene [1]	53.8	30-150		7/31/17 20:42
Tetrachloro-m-xylene [2]	54.6	30-150		7/31/17 20:42

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-2A Sampled: 7/20/2017 09:23

Sample ID: 17G0865-13

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	83.9		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-2B Sampled: 7/20/2017 09:24

Sample ID: 17G0865-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	380	55	mg/Kg dry	5		CTDEP ETPH	7/27/17	8/2/17 23:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	88.5	50-150		8/2/17 23:54

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-2B Sampled: 7/20/2017 09:24

Sample ID: 17G0865-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	15	2.7	mg/Kg dry	1		SW-846 6010C-D	7/24/17	7/26/17 12:12	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-2B Sampled: 7/20/2017 09:24

Sample ID: 17G0865-14

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	90.8		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-3 Sampled: 7/20/2017 09:25

Sample ID: 17G0865-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.0	30-150		7/31/17 20:54
Decachlorobiphenyl [2]	66.1	30-150		7/31/17 20:54
Tetrachloro-m-xylene [1]	68.3	30-150		7/31/17 20:54
Tetrachloro-m-xylene [2]	70.5	30-150		7/31/17 20:54

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-3 Sampled: 7/20/2017 09:25

Sample ID: 17G0865-15

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	84.1		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-4 Sampled: 7/20/2017 09:26

Sample ID: 17G0865-16

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	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1262 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.6	30-150		7/31/17 21:07
Decachlorobiphenyl [2]	72.5	30-150		7/31/17 21:07
Tetrachloro-m-xylene [1]	72.6	30-150		7/31/17 21:07
Tetrachloro-m-xylene [2]	73.6	30-150		7/31/17 21:07

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-4 Sampled: 7/20/2017 09:26

Sample ID: 17G0865-16

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	70.0		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-1 Sampled: 7/20/2017 09:40

Sample ID: 17G0865-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.8	30-150		7/31/17 21:19
Decachlorobiphenyl [2]	67.1	30-150		7/31/17 21:19
Tetrachloro-m-xylene [1]	65.5	30-150		7/31/17 21:19
Tetrachloro-m-xylene [2]	66.0	30-150		7/31/17 21:19

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-1 Sampled: 7/20/2017 09:40

Sample ID: 17G0865-17

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.7		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-2 Sampled: 7/20/2017 09:42

Sample ID: 17G0865-18

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	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.9	30-150		7/31/17 21:32
Decachlorobiphenyl [2]	62.5	30-150		7/31/17 21:32
Tetrachloro-m-xylene [1]	65.8	30-150		7/31/17 21:32
Tetrachloro-m-xylene [2]	65.4	30-150		7/31/17 21:32

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-2 Sampled: 7/20/2017 09:42

Sample ID: 17G0865-18

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	86.7		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-3 Sampled: 7/20/2017 09:44

Sample ID: 17G0865-19

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	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1248 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1260 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1262 [2]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.5	30-150		7/31/17 21:44
Decachlorobiphenyl [2]	76.9	30-150		7/31/17 21:44
Tetrachloro-m-xylene [1]	81.8	30-150		7/31/17 21:44
Tetrachloro-m-xylene [2]	79.1	30-150		7/31/17 21:44

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-3 Sampled: 7/20/2017 09:44

Sample ID: 17G0865-19

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	57.8		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-63-1A Sampled: 7/20/2017 09:32

Sample ID: 17G0865-20

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	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.9	30-150		7/31/17 21:57
Decachlorobiphenyl [2]	75.3	30-150		7/31/17 21:57
Tetrachloro-m-xylene [1]	77.2	30-150		7/31/17 21:57
Tetrachloro-m-xylene [2]	76.4	30-150		7/31/17 21:57

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-63-1A Sampled: 7/20/2017 09:32

Sample ID: 17G0865-20

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	93.0		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0865-14 [WS-AOC12W-SO-70-2B]	B182711	30.0	1.00	07/27/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0865-01 [WS-AOC12W-SO-68-1A]	B182677	07/28/17
17G0865-02 [WS-AOC12W-SO-68-1B]	B182677	07/28/17
17G0865-03 [WS-AOC12W-SO-68-2]	B182677	07/28/17
17G0865-04 [WS-AOC12W-SO-68-3]	B182677	07/28/17
17G0865-05 [WS-AOC12W-SO-74-1]	B182677	07/28/17
17G0865-06 [WS-AOC12W-SO-74-2]	B182677	07/28/17
17G0865-07 [WS-AOC12W-SO-74-3]	B182677	07/28/17
17G0865-08 [WS-AOC12W-SO-74-4]	B182677	07/28/17
17G0865-09 [WS-AOC12W-SO-65-1]	B182677	07/28/17
17G0865-10 [WS-AOC12W-SO-65-2]	B182677	07/28/17
17G0865-11 [WS-AOC12W-SO-65-3]	B182677	07/28/17
17G0865-12 [WS-AOC12W-SO-70-1]	B182677	07/28/17
17G0865-13 [WS-AOC12W-SO-70-2A]	B182677	07/28/17
17G0865-14 [WS-AOC12W-SO-70-2B]	B182677	07/28/17
17G0865-15 [WS-AOC12W-SO-70-3]	B182677	07/28/17
17G0865-16 [WS-AOC12W-SO-70-4]	B182677	07/28/17
17G0865-17 [WS-AOC12W-SO-59-1]	B182677	07/28/17
17G0865-18 [WS-AOC12W-SO-59-2]	B182677	07/28/17
17G0865-19 [WS-AOC12W-SO-59-3]	B182677	07/28/17
17G0865-20 [WS-AOC12W-SO-63-1A]	B182677	07/28/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0865-14 [WS-AOC12W-SO-70-2B]	B182378	1.01	50.0	07/24/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0865-01 [WS-AOC12W-SO-68-1A]	B182731	10.0	10.0	07/27/17
17G0865-03 [WS-AOC12W-SO-68-2]	B182731	10.0	10.0	07/27/17
17G0865-04 [WS-AOC12W-SO-68-3]	B182731	10.0	10.0	07/27/17
17G0865-05 [WS-AOC12W-SO-74-1]	B182731	10.0	10.0	07/27/17
17G0865-06 [WS-AOC12W-SO-74-2]	B182731	10.0	10.0	07/27/17
17G0865-07 [WS-AOC12W-SO-74-3]	B182731	10.0	10.0	07/27/17
17G0865-08 [WS-AOC12W-SO-74-4]	B182731	10.0	10.0	07/27/17
17G0865-09 [WS-AOC12W-SO-65-1]	B182731	10.0	10.0	07/27/17
17G0865-10 [WS-AOC12W-SO-65-2]	B182731	10.0	10.0	07/27/17
17G0865-11 [WS-AOC12W-SO-65-3]	B182731	10.0	10.0	07/27/17
17G0865-12 [WS-AOC12W-SO-70-1]	B182731	10.0	10.0	07/27/17
17G0865-13 [WS-AOC12W-SO-70-2A]	B182731	10.0	10.0	07/27/17
17G0865-15 [WS-AOC12W-SO-70-3]	B182731	10.0	10.0	07/27/17
17G0865-16 [WS-AOC12W-SO-70-4]	B182731	10.0	10.0	07/27/17
17G0865-17 [WS-AOC12W-SO-59-1]	B182731	10.0	10.0	07/27/17
17G0865-18 [WS-AOC12W-SO-59-2]	B182731	10.0	10.0	07/27/17
17G0865-19 [WS-AOC12W-SO-59-3]	B182731	10.0	10.0	07/27/17

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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
17G0865-20 [WS-AOC12W-SO-63-1A]	B182731	10.0	10.0	07/27/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0865-02 [WS-AOC12W-SO-68-1B]	B182702	30.0	1.00	07/27/17

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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 B182702 - SW-846 3546										
Blank (B182702-BLK1)				Prepared: 07/27/17 Analyzed: 07/28/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*1.56*		mg/Kg wet	3.33		46.8	30-130			
Surrogate: 2-Fluorobiphenyl	*1.50*		mg/Kg wet	3.33		44.9	30-130			
Surrogate: p-Terphenyl-d14	*1.56*		mg/Kg wet	3.33		46.8	30-130			
LCS (B182702-BS1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Acenaphthene	1.17	0.17	mg/Kg wet	1.67		70.5	40-140			
Acenaphthylene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Anthracene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140			
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.4	40-140			
Benzo(a)pyrene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140			
Benzo(b)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140			
Benzo(g,h,i)perylene	1.48	0.17	mg/Kg wet	1.67		88.5	40-140			
Benzo(k)fluoranthene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Chrysene	1.24	0.17	mg/Kg wet	1.67		74.1	40-140			
Dibenz(a,h)anthracene	1.39	0.17	mg/Kg wet	1.67		83.3	40-140			
Fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140			
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140			
Indeno(1,2,3-cd)pyrene	1.35	0.17	mg/Kg wet	1.67		81.0	40-140			
2-Methylnaphthalene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Naphthalene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Phenanthrene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140			
Pyrene	1.31	0.17	mg/Kg wet	1.67		78.6	40-140			
Surrogate: Nitrobenzene-d5	*2.68*		mg/Kg wet	3.33		80.4	30-130			
Surrogate: 2-Fluorobiphenyl	*2.68*		mg/Kg wet	3.33		80.5	30-130			
Surrogate: p-Terphenyl-d14	*2.96*		mg/Kg wet	3.33		88.7	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
Batch B182702 - SW-846 3546										
LCS Dup (B182702-BSD1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Acenaphthene	0.953	0.17	mg/Kg wet	1.67		57.2	40-140	20.8	30	
Acenaphthylene	0.915	0.17	mg/Kg wet	1.67		54.9	40-140	21.6	30	
Anthracene	0.982	0.17	mg/Kg wet	1.67		58.9	40-140	20.6	30	
Benzo(a)anthracene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140	20.7	30	
Benzo(a)pyrene	0.995	0.17	mg/Kg wet	1.67		59.7	40-140	19.7	30	
Benzo(b)fluoranthene	0.918	0.17	mg/Kg wet	1.67		55.1	40-140	19.8	30	
Benzo(g,h,i)perylene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	19.8	30	
Benzo(k)fluoranthene	0.903	0.17	mg/Kg wet	1.67		54.2	40-140	22.4	30	
Chrysene	0.989	0.17	mg/Kg wet	1.67		59.3	40-140	22.2	30	
Dibenz(a,h)anthracene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	19.8	30	
Fluoranthene	0.901	0.17	mg/Kg wet	1.67		54.0	40-140	18.8	30	
Fluorene	0.946	0.17	mg/Kg wet	1.67		56.7	40-140	21.7	30	
Indeno(1,2,3-cd)pyrene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140	20.0	30	
2-Methylnaphthalene	0.983	0.17	mg/Kg wet	1.67		59.0	40-140	19.6	30	
Naphthalene	0.960	0.17	mg/Kg wet	1.67		57.6	40-140	16.5	30	
Phenanthrene	0.979	0.17	mg/Kg wet	1.67		58.8	40-140	20.5	30	
Pyrene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	22.9	30	
Surrogate: Nitrobenzene-d5	*2.25*		mg/Kg wet	3.33		67.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.33		64.6	30-130			
Surrogate: p-Terphenyl-d14	*2.33*		mg/Kg wet	3.33		70.0	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 B182731 - SW-846 3540C										
Blank (B182731-BLK1)				Prepared: 07/27/17 Analyzed: 07/31/17						
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	*0.186*		mg/Kg wet	0.200		93.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.182*		mg/Kg wet	0.200		91.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.161*		mg/Kg wet	0.200		80.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.171*		mg/Kg wet	0.200		85.5	30-150			
LCS (B182731-BS1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		80.9	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		86.9	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		75.2	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		75.9	40-140			
Surrogate: Decachlorobiphenyl	*0.183*		mg/Kg wet	0.200		91.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.174*		mg/Kg wet	0.200		87.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.154*		mg/Kg wet	0.200		76.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.164*		mg/Kg wet	0.200		82.1	30-150			
LCS Dup (B182731-BSD1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		82.4	40-140	1.76	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		85.3	40-140	1.80	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		75.8	40-140	0.709	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		74.7	40-140	1.69	30	
Surrogate: Decachlorobiphenyl	*0.181*		mg/Kg wet	0.200		90.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.171*		mg/Kg wet	0.200		85.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.158*		mg/Kg wet	0.200		78.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.167*		mg/Kg wet	0.200		83.7	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 B182731 - SW-846 3540C										
Matrix Spike (B182731-MS1)		**Source: 17G0865-01**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.18	0.11	mg/Kg dry	0.215	ND	86.1	40-140			
Aroclor-1016 [2C]	0.17	0.11	mg/Kg dry	0.215	ND	77.8	40-140			
Aroclor-1260	0.19	0.11	mg/Kg dry	0.215	0.074	55.8	40-140			
Aroclor-1260 [2C]	0.18	0.11	mg/Kg dry	0.215	0.067	54.0	40-140			
Surrogate: Decachlorobiphenyl	*0.153*		mg/Kg dry	0.215		71.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.141*		mg/Kg dry	0.215		65.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.150*		mg/Kg dry	0.215		69.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.149*		mg/Kg dry	0.215		69.6	30-150			
Matrix Spike (B182731-MS2)		**Source: 17G0865-05**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.24	0.11	mg/Kg dry	0.219	ND	108	40-140			
Aroclor-1016 [2C]	0.19	0.11	mg/Kg dry	0.219	ND	87.9	40-140			
Aroclor-1260	0.20	0.11	mg/Kg dry	0.219	0.061	63.3	40-140			
Aroclor-1260 [2C]	0.19	0.11	mg/Kg dry	0.219	0.064	57.3	40-140			
Surrogate: Decachlorobiphenyl	*0.146*		mg/Kg dry	0.219		66.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.136*		mg/Kg dry	0.219		62.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.157*		mg/Kg dry	0.219		71.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.150*		mg/Kg dry	0.219		68.7	30-150			
Matrix Spike (B182731-MS3)		**Source: 17G0865-17**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.15	0.11	mg/Kg dry	0.216	ND	71.1	40-140			
Aroclor-1016 [2C]	0.14	0.11	mg/Kg dry	0.216	ND	65.9	40-140			
Aroclor-1260	0.19	0.11	mg/Kg dry	0.216	0.094	45.2	40-140			
Aroclor-1260 [2C]	0.19	0.11	mg/Kg dry	0.216	0.094	43.4	40-140			
Surrogate: Decachlorobiphenyl	*0.135*		mg/Kg dry	0.216		62.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.126*		mg/Kg dry	0.216		58.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.139*		mg/Kg dry	0.216		64.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.140*		mg/Kg dry	0.216		64.8	30-150			
Matrix Spike Dup (B182731-MSD1)		**Source: 17G0865-01**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.20	0.11	mg/Kg dry	0.215	ND	93.7	40-140	8.43	50	
Aroclor-1016 [2C]	0.17	0.11	mg/Kg dry	0.215	ND	80.8	40-140	3.75	50	
Aroclor-1260	0.19	0.11	mg/Kg dry	0.215	0.074	54.5	40-140	1.46	50	
Aroclor-1260 [2C]	0.19	0.11	mg/Kg dry	0.215	0.067	56.6	40-140	3.00	50	
Surrogate: Decachlorobiphenyl	*0.142*		mg/Kg dry	0.215		66.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.132*		mg/Kg dry	0.215		61.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.143*		mg/Kg dry	0.215		66.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.147*		mg/Kg dry	0.215		68.3	30-150			
Matrix Spike Dup (B182731-MSD2)		**Source: 17G0865-05**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.21	0.11	mg/Kg dry	0.219	ND	96.6	40-140	10.9	50	
Aroclor-1016 [2C]	0.21	0.11	mg/Kg dry	0.219	ND	95.2	40-140	7.95	50	
Aroclor-1260	0.18	0.11	mg/Kg dry	0.219	0.061	56.7	40-140	7.60	50	
Aroclor-1260 [2C]	0.19	0.11	mg/Kg dry	0.219	0.064	58.6	40-140	1.48	50	
Surrogate: Decachlorobiphenyl	*0.151*		mg/Kg dry	0.219		68.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.140*		mg/Kg dry	0.219		64.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.170*		mg/Kg dry	0.219		77.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.166*		mg/Kg dry	0.219		76.0	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 B182731 - SW-846 3540C										
Matrix Spike Dup (B182731-MSD3)		**Source: 17G0865-17**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.17	0.11	mg/Kg dry	0.216	ND	81.1	40-140	13.2	50	
Aroclor-1016 [2C]	0.17	0.11	mg/Kg dry	0.216	ND	78.9	40-140	17.9	50	
Aroclor-1260	0.21	0.11	mg/Kg dry	0.216	0.094	54.5	40-140	10.0	50	
Aroclor-1260 [2C]	0.21	0.11	mg/Kg dry	0.216	0.094	55.0	40-140	12.4	50	
Surrogate: Decachlorobiphenyl	*0.142*		mg/Kg dry	0.216		65.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.137*		mg/Kg dry	0.216		63.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.163*		mg/Kg dry	0.216		75.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.164*		mg/Kg dry	0.216		76.2	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182711 - SW-846 3546										
Blank (B182711-BLK1)				Prepared: 07/27/17 Analyzed: 08/01/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.13*		mg/Kg wet	3.33		93.9	50-150			
LCS (B182711-BS1)				Prepared: 07/27/17 Analyzed: 08/01/17						
CT ETPH	29.4	10	mg/Kg wet	33.3		88.2	60-120			
Surrogate: o-Terphenyl	*2.65*		mg/Kg wet	3.33		79.5	50-150			
LCS Dup (B182711-BSD1)				Prepared: 07/27/17 Analyzed: 08/01/17						
CT ETPH	28.3	10	mg/Kg wet	33.3		85.0	60-120	3.69	30	
Surrogate: o-Terphenyl	*2.56*		mg/Kg wet	3.33		76.9	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 B182378 - SW-846 3050B										
Blank (B182378-BLK1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B182378-BS1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Arsenic	54.2	5.0	mg/Kg wet	57.0		95.1	77.8-122.1			
LCS Dup (B182378-BSD1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Arsenic	53.8	5.1	mg/Kg wet	57.0		94.4	77.8-122.1	0.736	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 B182677 - % Solids										
Duplicate (B182677-DUP1)		**Source: 17G0865-01**		Prepared: 07/27/17 Analyzed: 07/28/17						
% Solids	89.8		% Wt		93.1			3.61	20	
Duplicate (B182677-DUP2)		**Source: 17G0865-05**		Prepared: 07/28/17 Analyzed: 07/29/17						
% Solids	89.7		% Wt		91.5			1.99	20	
Duplicate (B182677-DUP3)		**Source: 17G0865-17**		Prepared: 07/28/17 Analyzed: 07/29/17						
% Solids	92.3		% Wt		92.7			0.432	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182731-BS1 Date(s) Analyzed: 07/31/2017 07/31/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.17	6.1
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.15	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182731-BSD1 Date(s) Analyzed: 07/31/2017 07/31/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.17	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.15	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182731-MS1 Date(s) Analyzed: 07/31/2017 07/31/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.17	11.1
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.18	5.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182731-MS2 Date(s) Analyzed: 07/31/2017 07/31/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.19	23.3
Aroclor-1260	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.19	5.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182731-MS3 Date(s) Analyzed: 07/31/2017 07/31/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.14	6.9
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.19	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182731-MSD1 Date(s) Analyzed: 07/31/2017 07/31/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.17	16.2
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.19	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182731-MSD2 Date(s) Analyzed: 07/31/2017 07/31/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.21	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.19	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182731-MSD3 Date(s) Analyzed: 07/31/2017 07/31/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	5.7
Aroclor-1260	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.21	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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

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

1790865

con-test ANALYTICAL LABORATORY

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Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12W-SO-68-1A (MS)	7/20/17	9:00		X	S	U	X								
2	WS-AOC12W-SO-68-1B		9:02							X						
3	WS-AOC12W-SO-68-2		9:04					X								
4	WS-AOC12W-SO-68-3		9:06					X								
5	WS-AOC12W-SO-74-1 (MS-MSD)		9:00					X								
6	WS-AOC12W-SO-74-2		9:01					X								
7	WS-AOC12W-SO-74-3		9:02					X								
8	WS-AOC12W-SO-74-4		9:03					X								
9	WS-AOC12W-SO-65-1		9:17					X								
10	WS-AOC12W-SO-65-2		9:19					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments:
WS-AOC12W-SO-68-1A (MS-MSD)
Please hold excess volumes for possible SPLP analyses.
WS-AOC12W-SO-74-1 (MS-MSD)

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

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

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

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

Relinquished by: (signature)	Date/Time: 7/20/17 1535
Received by: (signature)	Date/Time: 7/20/17 1535
Relinquished by: (signature)	Date/Time: 7-20-17 6:30
Received by: (signature) 4.5	Date/Time: 7/20/17 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

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

NELAC and AIHA-LAP, LLC Accredited

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

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic						# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12W-SO-65-3	7/20/17	9:21		X	S	U	X													
12	WS-AOC12W-SO-70-1		9:22					X													
13	WS-AOC12W-SO-70-2A		9:23					X													
14	WS-AOC12W-SO-70-2B		9:24								X		X								
15	WS-AOC12W-SO-70-3		9:25					X													
16	WS-AOC12W-SO-70-4		9:26					X													
17	WS-AOC12W-SO-59-1 (MS-MSD)		9:40					X													
18	WS-AOC12W-SO-59-2		9:42					X													
19	WS-AOC12W-SO-59-3		9:42					X													
20	WS-AOC12W-SO-63-1A		9:32					X													

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:
WS-AOC12W-SO-59-1 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time: 7/20/17 1535
Received by: (signature)	Date/Time: 7/20/17 1535
Relinquished by: (signature)	Date/Time: 7/20/17 1630
Received by: (signature) 4.5	Date/Time: 7/20/17 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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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 SM Date 7/20/17 Time 1830

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

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 4.5, 3.4, 3.2
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? 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	26
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\A080217.SEC\A0802053.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/2/17
Data File Name	A0802053.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	359815	380451	-5
c - 10	1.50	352547	380451	-7
c - 12	2.22	374391	380451	-2
c - 14	2.89	384612	380451	1
c - 16	3.48	394076	380451	4
c - 18	4.05	388606	380451	2
o-Terphenyl	4.36	444826	380451	
c - 20	4.67	393700	380451	3
c - 22	5.18	398363	380451	5
c - 24	5.62	371023	380451	-2
c - 26	6.01	389982	380451	3
c - 28	6.37	384491	380451	1
c - 30	6.70	383606	380451	1
c - 32	7.01	375705	380451	-1
c - 34	7.30	377889	380451	-1
c - 36	7.58	377960	380451	-1

* One compound allowed %D </= 50%

Samples

17G0683-12@20X
17G0774-04@10X

D:\HPCHEM\1\DATA\A080217.SEC\A080293.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/2/17
Data File Name	A080293.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	363192	388257	-6
c - 10	1.49	353450	388257	-9
c - 12	2.23	378033	388257	-3
c - 14	2.89	391251	388257	1
c - 16	3.48	401490	388257	3
c - 18	4.05	397496	388257	2
o-Terphenyl	4.36	454898	388257	
c - 20	4.66	404130	388257	4
c - 22	5.18	408473	388257	5
c - 24	5.62	379630	388257	-2
c - 26	6.01	399141	388257	3
c - 28	6.37	392867	388257	1
c - 30	6.70	393552	388257	1
c - 32	7.01	386366	388257	0
c - 34	7.30	387490	388257	0
c - 36	7.58	387297	388257	0

* One compound allowed %D </= 50%

Samples

17G1059-01@5X
17G0865-14@5X
17G0866-14@5X
17G1077-03
17G1079-06
17G1048-01@50X
17G0911-16@20X
17G0913-08@50X

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: 17G0865

Laboratory Sample ID(s):

17G0865-01 thru 17G0865-20

Sample Date(s):

07/20/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A, SW-846 8270D

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

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

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

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

Printed Name: **Lisa A. Worthington** **Date:** **08/03/17**

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

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

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

August 3, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G0865

Enclosed are results of analyses for samples received by the laboratory on July 20, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

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

REPORT DATE: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0865

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-SO-68-1A	17G0865-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-68-1B	17G0865-02	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC12W-SO-68-2	17G0865-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-68-3	17G0865-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-74-1	17G0865-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-74-2	17G0865-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-74-3	17G0865-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-74-4	17G0865-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-65-1	17G0865-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-65-2	17G0865-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-65-3	17G0865-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-70-1	17G0865-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-70-2A	17G0865-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-70-2B	17G0865-14	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
WS-AOC12W-SO-70-3	17G0865-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-70-4	17G0865-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-59-1	17G0865-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-59-2	17G0865-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-59-3	17G0865-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-63-1A	17G0865-20	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

For method 6010, only As was requested and reported.

For method 8270, only PAHs were requested and reported.

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

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-1A Sampled: 7/20/2017 09:00

Sample ID: 17G0865-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.1	30-150		7/31/17 17:43
Decachlorobiphenyl [2]	74.1	30-150		7/31/17 17:43
Tetrachloro-m-xylene [1]	75.4	30-150		7/31/17 17:43
Tetrachloro-m-xylene [2]	76.8	30-150		7/31/17 17:43

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-1A Sampled: 7/20/2017 09:00

Sample ID: 17G0865-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.1		% Wt	1		SM 2540G	7/28/17	7/28/17 10:26	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-1B Sampled: 7/20/2017 09:02

Sample ID: 17G0865-02

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	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Chrysene	0.25	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Fluoranthene	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
2-Methylnaphthalene	0.33	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Phenanthrene	0.54	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	34.9	30-130		7/31/17 11:48
2-Fluorobiphenyl	32.1	30-130		7/31/17 11:48
p-Terphenyl-d14	32.4	30-130		7/31/17 11:48

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-1B Sampled: 7/20/2017 09:02

Sample ID: 17G0865-02

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	91.1		% Wt	1		SM 2540G	7/28/17	7/28/17 10:26	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-2 Sampled: 7/20/2017 09:04

Sample ID: 17G0865-03

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	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.2	30-150		7/31/17 17:56
Decachlorobiphenyl [2]	72.8	30-150		7/31/17 17:56
Tetrachloro-m-xylene [1]	71.5	30-150		7/31/17 17:56
Tetrachloro-m-xylene [2]	73.6	30-150		7/31/17 17:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-2 Sampled: 7/20/2017 09:04

Sample ID: 17G0865-03

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	92.0		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-3 Sampled: 7/20/2017 09:06

Sample ID: 17G0865-04

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	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1221 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1232 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1242 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1248 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1254 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1260 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1262 [2]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1268 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.2	30-150		7/31/17 18:09
Decachlorobiphenyl [2]	79.9	30-150		7/31/17 18:09
Tetrachloro-m-xylene [1]	84.2	30-150		7/31/17 18:09
Tetrachloro-m-xylene [2]	82.5	30-150		7/31/17 18:09

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-3 Sampled: 7/20/2017 09:06

Sample ID: 17G0865-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	55.0		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-1 Sampled: 7/20/2017 09:00

Sample ID: 17G0865-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.0	30-150		7/31/17 18:22
Decachlorobiphenyl [2]	71.5	30-150		7/31/17 18:22
Tetrachloro-m-xylene [1]	66.3	30-150		7/31/17 18:22
Tetrachloro-m-xylene [2]	68.0	30-150		7/31/17 18:22

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-1 Sampled: 7/20/2017 09:00

Sample ID: 17G0865-05

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	91.5		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-2 Sampled: 7/20/2017 09:01

Sample ID: 17G0865-06

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	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.5	30-150		7/31/17 18:35
Decachlorobiphenyl [2]	74.1	30-150		7/31/17 18:35
Tetrachloro-m-xylene [1]	72.7	30-150		7/31/17 18:35
Tetrachloro-m-xylene [2]	73.1	30-150		7/31/17 18:35

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-2 Sampled: 7/20/2017 09:01

Sample ID: 17G0865-06

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	92.8		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-3 Sampled: 7/20/2017 09:02

Sample ID: 17G0865-07

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	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	59.0	30-150		7/31/17 18:47
Decachlorobiphenyl [2]	54.3	30-150		7/31/17 18:47
Tetrachloro-m-xylene [1]	56.1	30-150		7/31/17 18:47
Tetrachloro-m-xylene [2]	59.1	30-150		7/31/17 18:47

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-3 Sampled: 7/20/2017 09:02

Sample ID: 17G0865-07

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	84.7		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-4 Sampled: 7/20/2017 09:03

Sample ID: 17G0865-08

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	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1262 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.6	30-150		7/31/17 19:00
Decachlorobiphenyl [2]	66.7	30-150		7/31/17 19:00
Tetrachloro-m-xylene [1]	67.9	30-150		7/31/17 19:00
Tetrachloro-m-xylene [2]	68.6	30-150		7/31/17 19:00

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-4 Sampled: 7/20/2017 09:03

Sample ID: 17G0865-08

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	73.1		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-1 Sampled: 7/20/2017 09:17

Sample ID: 17G0865-09

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	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.4	30-150		7/31/17 19:51
Decachlorobiphenyl [2]	77.8	30-150		7/31/17 19:51
Tetrachloro-m-xylene [1]	73.4	30-150		7/31/17 19:51
Tetrachloro-m-xylene [2]	73.8	30-150		7/31/17 19:51

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-1 Sampled: 7/20/2017 09:17

Sample ID: 17G0865-09

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	92.5		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-2 Sampled: 7/20/2017 09:19

Sample ID: 17G0865-10

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	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.7	30-150		7/31/17 20:04
Decachlorobiphenyl [2]	65.5	30-150		7/31/17 20:04
Tetrachloro-m-xylene [1]	64.3	30-150		7/31/17 20:04
Tetrachloro-m-xylene [2]	65.7	30-150		7/31/17 20:04

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-2 Sampled: 7/20/2017 09:19

Sample ID: 17G0865-10

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	90.5		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-3 Sampled: 7/20/2017 09:21

Sample ID: 17G0865-11

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	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1262 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.3	30-150		7/31/17 20:16
Decachlorobiphenyl [2]	74.2	30-150		7/31/17 20:16
Tetrachloro-m-xylene [1]	74.4	30-150		7/31/17 20:16
Tetrachloro-m-xylene [2]	74.9	30-150		7/31/17 20:16

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-3 Sampled: 7/20/2017 09:21

Sample ID: 17G0865-11

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	71.6		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-1 Sampled: 7/20/2017 09:22

Sample ID: 17G0865-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.9	30-150		7/31/17 20:29
Decachlorobiphenyl [2]	65.3	30-150		7/31/17 20:29
Tetrachloro-m-xylene [1]	65.0	30-150		7/31/17 20:29
Tetrachloro-m-xylene [2]	67.1	30-150		7/31/17 20:29

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-1 Sampled: 7/20/2017 09:22

Sample ID: 17G0865-12

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	91.6		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-2A Sampled: 7/20/2017 09:23

Sample ID: 17G0865-13

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	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.7	30-150		7/31/17 20:42
Decachlorobiphenyl [2]	55.7	30-150		7/31/17 20:42
Tetrachloro-m-xylene [1]	53.8	30-150		7/31/17 20:42
Tetrachloro-m-xylene [2]	54.6	30-150		7/31/17 20:42

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-2A Sampled: 7/20/2017 09:23

Sample ID: 17G0865-13

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	83.9		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-2B Sampled: 7/20/2017 09:24

Sample ID: 17G0865-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	380	55	mg/Kg dry	5		CTDEP ETPH	7/27/17	8/2/17 23:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	88.5	50-150		8/2/17 23:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-2B Sampled: 7/20/2017 09:24

Sample ID: 17G0865-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	15	2.7	mg/Kg dry	1		SW-846 6010C-D	7/24/17	7/26/17 12:12	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-2B Sampled: 7/20/2017 09:24

Sample ID: 17G0865-14

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	90.8		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-3 Sampled: 7/20/2017 09:25

Sample ID: 17G0865-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.0	30-150		7/31/17 20:54
Decachlorobiphenyl [2]	66.1	30-150		7/31/17 20:54
Tetrachloro-m-xylene [1]	68.3	30-150		7/31/17 20:54
Tetrachloro-m-xylene [2]	70.5	30-150		7/31/17 20:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-3 Sampled: 7/20/2017 09:25

Sample ID: 17G0865-15

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	84.1		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-4 Sampled: 7/20/2017 09:26

Sample ID: 17G0865-16

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	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1262 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.6	30-150		7/31/17 21:07
Decachlorobiphenyl [2]	72.5	30-150		7/31/17 21:07
Tetrachloro-m-xylene [1]	72.6	30-150		7/31/17 21:07
Tetrachloro-m-xylene [2]	73.6	30-150		7/31/17 21:07

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-4 Sampled: 7/20/2017 09:26

Sample ID: 17G0865-16

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	70.0		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-1 Sampled: 7/20/2017 09:40

Sample ID: 17G0865-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.8	30-150		7/31/17 21:19
Decachlorobiphenyl [2]	67.1	30-150		7/31/17 21:19
Tetrachloro-m-xylene [1]	65.5	30-150		7/31/17 21:19
Tetrachloro-m-xylene [2]	66.0	30-150		7/31/17 21:19

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-1 Sampled: 7/20/2017 09:40

Sample ID: 17G0865-17

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.7		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-2 Sampled: 7/20/2017 09:42

Sample ID: 17G0865-18

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	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.9	30-150		7/31/17 21:32
Decachlorobiphenyl [2]	62.5	30-150		7/31/17 21:32
Tetrachloro-m-xylene [1]	65.8	30-150		7/31/17 21:32
Tetrachloro-m-xylene [2]	65.4	30-150		7/31/17 21:32

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-2 Sampled: 7/20/2017 09:42

Sample ID: 17G0865-18

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	86.7		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-3 Sampled: 7/20/2017 09:44

Sample ID: 17G0865-19

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	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1248 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1260 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1262 [2]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.5	30-150		7/31/17 21:44
Decachlorobiphenyl [2]	76.9	30-150		7/31/17 21:44
Tetrachloro-m-xylene [1]	81.8	30-150		7/31/17 21:44
Tetrachloro-m-xylene [2]	79.1	30-150		7/31/17 21:44

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-3 Sampled: 7/20/2017 09:44

Sample ID: 17G0865-19

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	57.8		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-63-1A Sampled: 7/20/2017 09:32

Sample ID: 17G0865-20

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	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.9	30-150		7/31/17 21:57
Decachlorobiphenyl [2]	75.3	30-150		7/31/17 21:57
Tetrachloro-m-xylene [1]	77.2	30-150		7/31/17 21:57
Tetrachloro-m-xylene [2]	76.4	30-150		7/31/17 21:57

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-63-1A Sampled: 7/20/2017 09:32

Sample ID: 17G0865-20

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	93.0		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0865-14 [WS-AOC12W-SO-70-2B]	B182711	30.0	1.00	07/27/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0865-01 [WS-AOC12W-SO-68-1A]	B182677	07/28/17
17G0865-02 [WS-AOC12W-SO-68-1B]	B182677	07/28/17
17G0865-03 [WS-AOC12W-SO-68-2]	B182677	07/28/17
17G0865-04 [WS-AOC12W-SO-68-3]	B182677	07/28/17
17G0865-05 [WS-AOC12W-SO-74-1]	B182677	07/28/17
17G0865-06 [WS-AOC12W-SO-74-2]	B182677	07/28/17
17G0865-07 [WS-AOC12W-SO-74-3]	B182677	07/28/17
17G0865-08 [WS-AOC12W-SO-74-4]	B182677	07/28/17
17G0865-09 [WS-AOC12W-SO-65-1]	B182677	07/28/17
17G0865-10 [WS-AOC12W-SO-65-2]	B182677	07/28/17
17G0865-11 [WS-AOC12W-SO-65-3]	B182677	07/28/17
17G0865-12 [WS-AOC12W-SO-70-1]	B182677	07/28/17
17G0865-13 [WS-AOC12W-SO-70-2A]	B182677	07/28/17
17G0865-14 [WS-AOC12W-SO-70-2B]	B182677	07/28/17
17G0865-15 [WS-AOC12W-SO-70-3]	B182677	07/28/17
17G0865-16 [WS-AOC12W-SO-70-4]	B182677	07/28/17
17G0865-17 [WS-AOC12W-SO-59-1]	B182677	07/28/17
17G0865-18 [WS-AOC12W-SO-59-2]	B182677	07/28/17
17G0865-19 [WS-AOC12W-SO-59-3]	B182677	07/28/17
17G0865-20 [WS-AOC12W-SO-63-1A]	B182677	07/28/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0865-14 [WS-AOC12W-SO-70-2B]	B182378	1.01	50.0	07/24/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0865-01 [WS-AOC12W-SO-68-1A]	B182731	10.0	10.0	07/27/17
17G0865-03 [WS-AOC12W-SO-68-2]	B182731	10.0	10.0	07/27/17
17G0865-04 [WS-AOC12W-SO-68-3]	B182731	10.0	10.0	07/27/17
17G0865-05 [WS-AOC12W-SO-74-1]	B182731	10.0	10.0	07/27/17
17G0865-06 [WS-AOC12W-SO-74-2]	B182731	10.0	10.0	07/27/17
17G0865-07 [WS-AOC12W-SO-74-3]	B182731	10.0	10.0	07/27/17
17G0865-08 [WS-AOC12W-SO-74-4]	B182731	10.0	10.0	07/27/17
17G0865-09 [WS-AOC12W-SO-65-1]	B182731	10.0	10.0	07/27/17
17G0865-10 [WS-AOC12W-SO-65-2]	B182731	10.0	10.0	07/27/17
17G0865-11 [WS-AOC12W-SO-65-3]	B182731	10.0	10.0	07/27/17
17G0865-12 [WS-AOC12W-SO-70-1]	B182731	10.0	10.0	07/27/17
17G0865-13 [WS-AOC12W-SO-70-2A]	B182731	10.0	10.0	07/27/17
17G0865-15 [WS-AOC12W-SO-70-3]	B182731	10.0	10.0	07/27/17
17G0865-16 [WS-AOC12W-SO-70-4]	B182731	10.0	10.0	07/27/17
17G0865-17 [WS-AOC12W-SO-59-1]	B182731	10.0	10.0	07/27/17
17G0865-18 [WS-AOC12W-SO-59-2]	B182731	10.0	10.0	07/27/17
17G0865-19 [WS-AOC12W-SO-59-3]	B182731	10.0	10.0	07/27/17

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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
17G0865-20 [WS-AOC12W-SO-63-1A]	B182731	10.0	10.0	07/27/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0865-02 [WS-AOC12W-SO-68-1B]	B182702	30.0	1.00	07/27/17

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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 B182702 - SW-846 3546										
Blank (B182702-BLK1)				Prepared: 07/27/17 Analyzed: 07/28/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*1.56*		mg/Kg wet	3.33		46.8	30-130			
Surrogate: 2-Fluorobiphenyl	*1.50*		mg/Kg wet	3.33		44.9	30-130			
Surrogate: p-Terphenyl-d14	*1.56*		mg/Kg wet	3.33		46.8	30-130			
LCS (B182702-BS1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Acenaphthene	1.17	0.17	mg/Kg wet	1.67		70.5	40-140			
Acenaphthylene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Anthracene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140			
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.4	40-140			
Benzo(a)pyrene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140			
Benzo(b)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140			
Benzo(g,h,i)perylene	1.48	0.17	mg/Kg wet	1.67		88.5	40-140			
Benzo(k)fluoranthene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Chrysene	1.24	0.17	mg/Kg wet	1.67		74.1	40-140			
Dibenz(a,h)anthracene	1.39	0.17	mg/Kg wet	1.67		83.3	40-140			
Fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140			
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140			
Indeno(1,2,3-cd)pyrene	1.35	0.17	mg/Kg wet	1.67		81.0	40-140			
2-Methylnaphthalene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Naphthalene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Phenanthrene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140			
Pyrene	1.31	0.17	mg/Kg wet	1.67		78.6	40-140			
Surrogate: Nitrobenzene-d5	*2.68*		mg/Kg wet	3.33		80.4	30-130			
Surrogate: 2-Fluorobiphenyl	*2.68*		mg/Kg wet	3.33		80.5	30-130			
Surrogate: p-Terphenyl-d14	*2.96*		mg/Kg wet	3.33		88.7	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
Batch B182702 - SW-846 3546										
LCS Dup (B182702-BSD1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Acenaphthene	0.953	0.17	mg/Kg wet	1.67		57.2	40-140	20.8	30	
Acenaphthylene	0.915	0.17	mg/Kg wet	1.67		54.9	40-140	21.6	30	
Anthracene	0.982	0.17	mg/Kg wet	1.67		58.9	40-140	20.6	30	
Benzo(a)anthracene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140	20.7	30	
Benzo(a)pyrene	0.995	0.17	mg/Kg wet	1.67		59.7	40-140	19.7	30	
Benzo(b)fluoranthene	0.918	0.17	mg/Kg wet	1.67		55.1	40-140	19.8	30	
Benzo(g,h,i)perylene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	19.8	30	
Benzo(k)fluoranthene	0.903	0.17	mg/Kg wet	1.67		54.2	40-140	22.4	30	
Chrysene	0.989	0.17	mg/Kg wet	1.67		59.3	40-140	22.2	30	
Dibenz(a,h)anthracene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	19.8	30	
Fluoranthene	0.901	0.17	mg/Kg wet	1.67		54.0	40-140	18.8	30	
Fluorene	0.946	0.17	mg/Kg wet	1.67		56.7	40-140	21.7	30	
Indeno(1,2,3-cd)pyrene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140	20.0	30	
2-Methylnaphthalene	0.983	0.17	mg/Kg wet	1.67		59.0	40-140	19.6	30	
Naphthalene	0.960	0.17	mg/Kg wet	1.67		57.6	40-140	16.5	30	
Phenanthrene	0.979	0.17	mg/Kg wet	1.67		58.8	40-140	20.5	30	
Pyrene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	22.9	30	
Surrogate: Nitrobenzene-d5	*2.25*		mg/Kg wet	3.33		67.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.33		64.6	30-130			
Surrogate: p-Terphenyl-d14	*2.33*		mg/Kg wet	3.33		70.0	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 B182731 - SW-846 3540C										
Blank (B182731-BLK1)				Prepared: 07/27/17 Analyzed: 07/31/17						
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	*0.186*		mg/Kg wet	0.200		93.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.182*		mg/Kg wet	0.200		91.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.161*		mg/Kg wet	0.200		80.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.171*		mg/Kg wet	0.200		85.5	30-150			
LCS (B182731-BS1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		80.9	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		86.9	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		75.2	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		75.9	40-140			
Surrogate: Decachlorobiphenyl	*0.183*		mg/Kg wet	0.200		91.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.174*		mg/Kg wet	0.200		87.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.154*		mg/Kg wet	0.200		76.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.164*		mg/Kg wet	0.200		82.1	30-150			
LCS Dup (B182731-BSD1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		82.4	40-140	1.76	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		85.3	40-140	1.80	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		75.8	40-140	0.709	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		74.7	40-140	1.69	30	
Surrogate: Decachlorobiphenyl	*0.181*		mg/Kg wet	0.200		90.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.171*		mg/Kg wet	0.200		85.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.158*		mg/Kg wet	0.200		78.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.167*		mg/Kg wet	0.200		83.7	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 B182731 - SW-846 3540C										
Matrix Spike (B182731-MS1)		**Source: 17G0865-01**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.18	0.11	mg/Kg dry	0.215	ND	86.1	40-140			
Aroclor-1016 [2C]	0.17	0.11	mg/Kg dry	0.215	ND	77.8	40-140			
Aroclor-1260	0.19	0.11	mg/Kg dry	0.215	0.074	55.8	40-140			
Aroclor-1260 [2C]	0.18	0.11	mg/Kg dry	0.215	0.067	54.0	40-140			
Surrogate: Decachlorobiphenyl	*0.153*		mg/Kg dry	0.215		71.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.141*		mg/Kg dry	0.215		65.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.150*		mg/Kg dry	0.215		69.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.149*		mg/Kg dry	0.215		69.6	30-150			
Matrix Spike (B182731-MS2)		**Source: 17G0865-05**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.24	0.11	mg/Kg dry	0.219	ND	108	40-140			
Aroclor-1016 [2C]	0.19	0.11	mg/Kg dry	0.219	ND	87.9	40-140			
Aroclor-1260	0.20	0.11	mg/Kg dry	0.219	0.061	63.3	40-140			
Aroclor-1260 [2C]	0.19	0.11	mg/Kg dry	0.219	0.064	57.3	40-140			
Surrogate: Decachlorobiphenyl	*0.146*		mg/Kg dry	0.219		66.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.136*		mg/Kg dry	0.219		62.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.157*		mg/Kg dry	0.219		71.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.150*		mg/Kg dry	0.219		68.7	30-150			
Matrix Spike (B182731-MS3)		**Source: 17G0865-17**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.15	0.11	mg/Kg dry	0.216	ND	71.1	40-140			
Aroclor-1016 [2C]	0.14	0.11	mg/Kg dry	0.216	ND	65.9	40-140			
Aroclor-1260	0.19	0.11	mg/Kg dry	0.216	0.094	45.2	40-140			
Aroclor-1260 [2C]	0.19	0.11	mg/Kg dry	0.216	0.094	43.4	40-140			
Surrogate: Decachlorobiphenyl	*0.135*		mg/Kg dry	0.216		62.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.126*		mg/Kg dry	0.216		58.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.139*		mg/Kg dry	0.216		64.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.140*		mg/Kg dry	0.216		64.8	30-150			
Matrix Spike Dup (B182731-MSD1)		**Source: 17G0865-01**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.20	0.11	mg/Kg dry	0.215	ND	93.7	40-140	8.43	50	
Aroclor-1016 [2C]	0.17	0.11	mg/Kg dry	0.215	ND	80.8	40-140	3.75	50	
Aroclor-1260	0.19	0.11	mg/Kg dry	0.215	0.074	54.5	40-140	1.46	50	
Aroclor-1260 [2C]	0.19	0.11	mg/Kg dry	0.215	0.067	56.6	40-140	3.00	50	
Surrogate: Decachlorobiphenyl	*0.142*		mg/Kg dry	0.215		66.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.132*		mg/Kg dry	0.215		61.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.143*		mg/Kg dry	0.215		66.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.147*		mg/Kg dry	0.215		68.3	30-150			
Matrix Spike Dup (B182731-MSD2)		**Source: 17G0865-05**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.21	0.11	mg/Kg dry	0.219	ND	96.6	40-140	10.9	50	
Aroclor-1016 [2C]	0.21	0.11	mg/Kg dry	0.219	ND	95.2	40-140	7.95	50	
Aroclor-1260	0.18	0.11	mg/Kg dry	0.219	0.061	56.7	40-140	7.60	50	
Aroclor-1260 [2C]	0.19	0.11	mg/Kg dry	0.219	0.064	58.6	40-140	1.48	50	
Surrogate: Decachlorobiphenyl	*0.151*		mg/Kg dry	0.219		68.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.140*		mg/Kg dry	0.219		64.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.170*		mg/Kg dry	0.219		77.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.166*		mg/Kg dry	0.219		76.0	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 B182731 - SW-846 3540C										
Matrix Spike Dup (B182731-MSD3)		**Source: 17G0865-17**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.17	0.11	mg/Kg dry	0.216	ND	81.1	40-140	13.2	50	
Aroclor-1016 [2C]	0.17	0.11	mg/Kg dry	0.216	ND	78.9	40-140	17.9	50	
Aroclor-1260	0.21	0.11	mg/Kg dry	0.216	0.094	54.5	40-140	10.0	50	
Aroclor-1260 [2C]	0.21	0.11	mg/Kg dry	0.216	0.094	55.0	40-140	12.4	50	
Surrogate: Decachlorobiphenyl	*0.142*		mg/Kg dry	0.216		65.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.137*		mg/Kg dry	0.216		63.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.163*		mg/Kg dry	0.216		75.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.164*		mg/Kg dry	0.216		76.2	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182711 - SW-846 3546										
Blank (B182711-BLK1)				Prepared: 07/27/17 Analyzed: 08/01/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.13*		mg/Kg wet	3.33		93.9	50-150			
LCS (B182711-BS1)				Prepared: 07/27/17 Analyzed: 08/01/17						
CT ETPH	29.4	10	mg/Kg wet	33.3		88.2	60-120			
Surrogate: o-Terphenyl	*2.65*		mg/Kg wet	3.33		79.5	50-150			
LCS Dup (B182711-BSD1)				Prepared: 07/27/17 Analyzed: 08/01/17						
CT ETPH	28.3	10	mg/Kg wet	33.3		85.0	60-120	3.69	30	
Surrogate: o-Terphenyl	*2.56*		mg/Kg wet	3.33		76.9	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 B182378 - SW-846 3050B										
Blank (B182378-BLK1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B182378-BS1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Arsenic	54.2	5.0	mg/Kg wet	57.0		95.1	77.8-122.1			
LCS Dup (B182378-BSD1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Arsenic	53.8	5.1	mg/Kg wet	57.0		94.4	77.8-122.1	0.736	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 B182677 - % Solids										
Duplicate (B182677-DUP1)		**Source: 17G0865-01**		Prepared: 07/27/17 Analyzed: 07/28/17						
% Solids	89.8		% Wt		93.1			3.61	20	
Duplicate (B182677-DUP2)		**Source: 17G0865-05**		Prepared: 07/28/17 Analyzed: 07/29/17						
% Solids	89.7		% Wt		91.5			1.99	20	
Duplicate (B182677-DUP3)		**Source: 17G0865-17**		Prepared: 07/28/17 Analyzed: 07/29/17						
% Solids	92.3		% Wt		92.7			0.432	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182731-BS1 Date(s) Analyzed 07/31/2017 07/31/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.17	6.1
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.15	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182731-BSD1 Date(s) Analyzed 07/31/2017 07/31/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.17	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.15	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182731-MS1 Date(s) Analyzed 07/31/2017 07/31/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.17	11.1
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.18	5.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182731-MS2 Date(s) Analyzed 07/31/2017 07/31/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.19	23.3
Aroclor-1260	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.19	5.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182731-MS3

Date(s) Analyzed 07/31/2017 07/31/2017

Instrument ID (1): ECD5

Instrument ID (2): ECD5

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.14	6.9
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.19	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182731-MSD1 Date(s) Analyzed 07/31/2017 07/31/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.17	16.2
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.19	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182731-MSD2 Date(s) Analyzed 07/31/2017 07/31/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.21	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.19	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182731-MSD3 Date(s) Analyzed 07/31/2017 07/31/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	5.7
Aroclor-1260	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.21	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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

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

1790865

con-test ANALYTICAL LABORATORY

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

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12W-SO-68-1A (MS)	7/20/17	9:00		X	S	U	X								
2	WS-AOC12W-SO-68-1B		9:02							X						
3	WS-AOC12W-SO-68-2		9:04					X								
4	WS-AOC12W-SO-68-3		9:06					X								
5	WS-AOC12W-SO-74-1 (MS-MSD)		9:00					X								
6	WS-AOC12W-SO-74-2		9:01					X								
7	WS-AOC12W-SO-74-3		9:02					X								
8	WS-AOC12W-SO-74-4		9:03					X								
9	WS-AOC12W-SO-65-1		9:17					X								
10	WS-AOC12W-SO-65-2		9:19					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments:
WS-AOC12W-SO-68-1A (MS-MSD)
Please hold excess volumes for possible SPLP analyses.
WS-AOC12W-SO-74-1 (MS-MSD)

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

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

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

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

Relinquished by: (signature)	Date/Time: 7/20/17 1535
Received by: (signature)	Date/Time: 7/20/17 1535
Relinquished by: (signature)	Date/Time: 7-20-17 6:30
Received by: (signature) 4.5	Date/Time: 7/20/17 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

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

NELAC and AIHA-LAP, LLC Accredited

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

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Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic						# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12W-SO-65-3	7/20/17	9:21		X	S	U	X													
12	WS-AOC12W-SO-70-1		9:22					X													
13	WS-AOC12W-SO-70-2A		9:23					X													
14	WS-AOC12W-SO-70-2B		9:24								X		X								
15	WS-AOC12W-SO-70-3		9:25					X													
16	WS-AOC12W-SO-70-4		9:26					X													
17	WS-AOC12W-SO-59-1 (MS-MSD)		9:40					X													
18	WS-AOC12W-SO-59-2		9:42					X													
19	WS-AOC12W-SO-59-3		9:42					X													
20	WS-AOC12W-SO-63-1A		9:32					X													

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:
WS-AOC12W-SO-59-1 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time: 7/20/17 1535
Received by: (signature)	Date/Time: 7/20/17 1535
Relinquished by: (signature)	Date/Time: 7/20/17 1630
Received by: (signature) 4.5	Date/Time: 7/20/17 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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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 SM Date 7/20/17 Time 1830

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

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 4.5, 3.4, 3.2
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? 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	26
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\A080217.SEC\A0802053.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/2/17
Data File Name	A0802053.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	359815	380451	-5
c - 10	1.50	352547	380451	-7
c - 12	2.22	374391	380451	-2
c - 14	2.89	384612	380451	1
c - 16	3.48	394076	380451	4
c - 18	4.05	388606	380451	2
o-Terphenyl	4.36	444826	380451	
c - 20	4.67	393700	380451	3
c - 22	5.18	398363	380451	5
c - 24	5.62	371023	380451	-2
c - 26	6.01	389982	380451	3
c - 28	6.37	384491	380451	1
c - 30	6.70	383606	380451	1
c - 32	7.01	375705	380451	-1
c - 34	7.30	377889	380451	-1
c - 36	7.58	377960	380451	-1

* One compound allowed %D </= 50%

Samples

17G0683-12@20X
17G0774-04@10X

D:\HPCHEM\1\DATA\A080217.SEC\A080293.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/2/17
Data File Name	A080293.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	363192	388257	-6
c - 10	1.49	353450	388257	-9
c - 12	2.23	378033	388257	-3
c - 14	2.89	391251	388257	1
c - 16	3.48	401490	388257	3
c - 18	4.05	397496	388257	2
o-Terphenyl	4.36	454898	388257	
c - 20	4.66	404130	388257	4
c - 22	5.18	408473	388257	5
c - 24	5.62	379630	388257	-2
c - 26	6.01	399141	388257	3
c - 28	6.37	392867	388257	1
c - 30	6.70	393552	388257	1
c - 32	7.01	386366	388257	0
c - 34	7.30	387490	388257	0
c - 36	7.58	387297	388257	0

* One compound allowed %D </= 50%

Samples

17G1059-01@5X
17G0865-14@5X
17G0866-14@5X
17G1077-03
17G1079-06
17G1048-01@50X
17G0911-16@20X
17G0913-08@50X

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: 17G0865

Laboratory Sample ID(s):

17G0865-01 thru 17G0865-20

Sample Date(s):

07/20/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A, SW-846 8270D

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

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

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

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

Printed Name: **Lisa A. Worthington** **Date:** **08/03/17**

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

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

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

August 3, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G0866

Enclosed are results of analyses for samples received by the laboratory on July 20, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

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

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

REPORT DATE: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0866

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-SO-63-1B	17G0866-01	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC12W-SO-63-2	17G0866-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-63-3	17G0866-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-61-1	17G0866-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-61-2	17G0866-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-61-3	17G0866-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-55-1	17G0866-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-55-2	17G0866-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-55-3	17G0866-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-51-1	17G0866-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-51-2	17G0866-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-51-3	17G0866-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-57-1A	17G0866-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-57-1B	17G0866-14	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
WS-AOC12W-SO-57-2	17G0866-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-57-3	17G0866-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-53-1	17G0866-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-53-2	17G0866-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-53-3	17G0866-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-48-1	17G0866-20	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

For method 6010, only As was requested and reported.

For method 8270, only PAHs were requested and reported.

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

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-63-1B Sampled: 7/20/2017 09:33

Sample ID: 17G0866-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
2-Methylnaphthalene	0.19	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Phenanthrene	0.35	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	32.0	30-130		7/28/17 23:17
2-Fluorobiphenyl	30.7	30-130		7/28/17 23:17
p-Terphenyl-d14	33.8	30-130		7/28/17 23:17

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-63-1B Sampled: 7/20/2017 09:33

Sample ID: 17G0866-01

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	90.4		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-63-2 Sampled: 7/20/2017 09:34

Sample ID: 17G0866-02

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	5		SW-846 8082A	7/27/17	7/31/17 13:40	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:40	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:40	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:40	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:40	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:40	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:40	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:40	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:40	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.6	30-150		7/31/17 13:40
Decachlorobiphenyl [2]	109	30-150		7/31/17 13:40
Tetrachloro-m-xylene [1]	86.1	30-150		7/31/17 13:40
Tetrachloro-m-xylene [2]	93.4	30-150		7/31/17 13:40

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-63-2 Sampled: 7/20/2017 09:34

Sample ID: 17G0866-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.2		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-63-3 Sampled: 7/20/2017 09:35

Sample ID: 17G0866-03

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	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:53	KAL
Aroclor-1221 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:53	KAL
Aroclor-1232 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:53	KAL
Aroclor-1242 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:53	KAL
Aroclor-1248 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:53	KAL
Aroclor-1254 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:53	KAL
Aroclor-1260 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:53	KAL
Aroclor-1262 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:53	KAL
Aroclor-1268 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:53	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.1	30-150		7/31/17 13:53
Decachlorobiphenyl [2]	111	30-150		7/31/17 13:53
Tetrachloro-m-xylene [1]	90.2	30-150		7/31/17 13:53
Tetrachloro-m-xylene [2]	99.1	30-150		7/31/17 13:53

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-63-3 Sampled: 7/20/2017 09:35

Sample ID: 17G0866-03

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	54.2		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-61-1 Sampled: 7/20/2017 09:50

Sample ID: 17G0866-04

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	5		SW-846 8082A	7/27/17	7/31/17 14:06	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:06	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:06	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:06	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:06	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:06	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:06	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:06	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:06	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.8	30-150		7/31/17 14:06
Decachlorobiphenyl [2]	113	30-150		7/31/17 14:06
Tetrachloro-m-xylene [1]	96.9	30-150		7/31/17 14:06
Tetrachloro-m-xylene [2]	105	30-150		7/31/17 14:06

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-61-1 Sampled: 7/20/2017 09:50

Sample ID: 17G0866-04

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	94.3		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-61-2 Sampled: 7/20/2017 09:51

Sample ID: 17G0866-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:18	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:18	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:18	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:18	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:18	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:18	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:18	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:18	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:18	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.1	30-150		7/31/17 14:18
Decachlorobiphenyl [2]	107	30-150		7/31/17 14:18
Tetrachloro-m-xylene [1]	85.9	30-150		7/31/17 14:18
Tetrachloro-m-xylene [2]	93.2	30-150		7/31/17 14:18

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-61-2 Sampled: 7/20/2017 09:51

Sample ID: 17G0866-05

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	91.0		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-61-3 Sampled: 7/20/2017 09:52

Sample ID: 17G0866-06

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	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:36	KAL
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:36	KAL
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:36	KAL
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:36	KAL
Aroclor-1248 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:36	KAL
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:36	KAL
Aroclor-1260 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:36	KAL
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:36	KAL
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:36	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.0	30-150		7/31/17 14:36
Decachlorobiphenyl [2]	104	30-150		7/31/17 14:36
Tetrachloro-m-xylene [1]	91.8	30-150		7/31/17 14:36
Tetrachloro-m-xylene [2]	97.9	30-150		7/31/17 14:36

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-61-3 Sampled: 7/20/2017 09:52

Sample ID: 17G0866-06

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	59.4		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-55-1 Sampled: 7/20/2017 10:04

Sample ID: 17G0866-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:54	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:54	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:54	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:54	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:54	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:54	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:54	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:54	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:54	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.7	30-150		7/31/17 14:54
Decachlorobiphenyl [2]	107	30-150		7/31/17 14:54
Tetrachloro-m-xylene [1]	87.6	30-150		7/31/17 14:54
Tetrachloro-m-xylene [2]	96.4	30-150		7/31/17 14:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-55-1 Sampled: 7/20/2017 10:04

Sample ID: 17G0866-07

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	94.4		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-55-2 Sampled: 7/20/2017 10:06

Sample ID: 17G0866-08

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	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 15:12	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 15:12	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 15:12	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 15:12	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 15:12	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 15:12	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 15:12	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 15:12	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 15:12	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.9	30-150		7/31/17 15:12
Decachlorobiphenyl [2]	104	30-150		7/31/17 15:12
Tetrachloro-m-xylene [1]	86.5	30-150		7/31/17 15:12
Tetrachloro-m-xylene [2]	91.0	30-150		7/31/17 15:12

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-55-2 Sampled: 7/20/2017 10:06

Sample ID: 17G0866-08

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	93.5		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-55-3 Sampled: 7/20/2017 10:08

Sample ID: 17G0866-09

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	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:19	KAL
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:19	KAL
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:19	KAL
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:19	KAL
Aroclor-1248 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:19	KAL
Aroclor-1254 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:19	KAL
Aroclor-1260 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:19	KAL
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:19	KAL
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:19	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.6	30-150		7/31/17 16:19
Decachlorobiphenyl [2]	110	30-150		7/31/17 16:19
Tetrachloro-m-xylene [1]	90.4	30-150		7/31/17 16:19
Tetrachloro-m-xylene [2]	97.1	30-150		7/31/17 16:19

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-55-3 Sampled: 7/20/2017 10:08

Sample ID: 17G0866-09

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	68.3		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-51-1 Sampled: 7/20/2017 10:10

Sample ID: 17G0866-10

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	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:37	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:37	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:37	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:37	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:37	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:37	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:37	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:37	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:37	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	105	30-150		7/31/17 16:37
Decachlorobiphenyl [2]	118	30-150		7/31/17 16:37
Tetrachloro-m-xylene [1]	94.8	30-150		7/31/17 16:37
Tetrachloro-m-xylene [2]	104	30-150		7/31/17 16:37

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-51-1 Sampled: 7/20/2017 10:10

Sample ID: 17G0866-10

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	97.1		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-51-2 Sampled: 7/20/2017 10:12

Sample ID: 17G0866-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:55	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:55	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:55	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:55	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:55	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:55	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:55	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:55	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:55	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.3	30-150		7/31/17 16:55
Decachlorobiphenyl [2]	84.0	30-150		7/31/17 16:55
Tetrachloro-m-xylene [1]	70.0	30-150		7/31/17 16:55
Tetrachloro-m-xylene [2]	74.3	30-150		7/31/17 16:55

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-51-2 Sampled: 7/20/2017 10:12

Sample ID: 17G0866-11

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	91.1		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-51-3 Sampled: 7/20/2017 10:14

Sample ID: 17G0866-12

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	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:13	KAL
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:13	KAL
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:13	KAL
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:13	KAL
Aroclor-1248 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:13	KAL
Aroclor-1254 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:13	KAL
Aroclor-1260 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:13	KAL
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:13	KAL
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:13	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	107	30-150		7/31/17 17:13
Decachlorobiphenyl [2]	121	30-150		7/31/17 17:13
Tetrachloro-m-xylene [1]	93.9	30-150		7/31/17 17:13
Tetrachloro-m-xylene [2]	98.5	30-150		7/31/17 17:13

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-51-3 Sampled: 7/20/2017 10:14

Sample ID: 17G0866-12

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	66.7		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-57-1A Sampled: 7/20/2017 10:02

Sample ID: 17G0866-13

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	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:31	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:31	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:31	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:31	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:31	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:31	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:31	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:31	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.2	30-150		7/31/17 17:31
Decachlorobiphenyl [2]	107	30-150		7/31/17 17:31
Tetrachloro-m-xylene [1]	85.6	30-150		7/31/17 17:31
Tetrachloro-m-xylene [2]	95.0	30-150		7/31/17 17:31

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-57-1A Sampled: 7/20/2017 10:02

Sample ID: 17G0866-13

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	96.1		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-57-1B Sampled: 7/20/2017 10:03

Sample ID: 17G0866-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	430	61	mg/Kg dry	5		CTDEP ETPH	7/27/17	8/3/17 0:12	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	87.7	50-150		8/3/17 0:12

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-57-1B Sampled: 7/20/2017 10:03

Sample ID: 17G0866-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	6.5	2.9	mg/Kg dry	1		SW-846 6010C-D	7/24/17	7/26/17 12:16	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-57-1B Sampled: 7/20/2017 10:03

Sample ID: 17G0866-14

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	7/27/17	7/28/17 10:26	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-57-2 Sampled: 7/20/2017 10:04

Sample ID: 17G0866-15

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	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:49	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:49	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:49	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:49	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:49	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:49	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:49	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:49	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:49	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.4	30-150		7/31/17 17:49
Decachlorobiphenyl [2]	101	30-150		7/31/17 17:49
Tetrachloro-m-xylene [1]	81.6	30-150		7/31/17 17:49
Tetrachloro-m-xylene [2]	85.6	30-150		7/31/17 17:49

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-57-2 Sampled: 7/20/2017 10:04

Sample ID: 17G0866-15

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.3		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-57-3 Sampled: 7/20/2017 10:05

Sample ID: 17G0866-16

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	0.13	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:07	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:07	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:07	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:07	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:07	KAL
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:07	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:07	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:07	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:07	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		7/31/17 18:07
Decachlorobiphenyl [2]	114	30-150		7/31/17 18:07
Tetrachloro-m-xylene [1]	93.7	30-150		7/31/17 18:07
Tetrachloro-m-xylene [2]	99.9	30-150		7/31/17 18:07

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-57-3 Sampled: 7/20/2017 10:05

Sample ID: 17G0866-16

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	79.1		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-53-1 Sampled: 7/20/2017 10:15

Sample ID: 17G0866-17

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	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:25	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:25	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:25	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:25	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:25	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:25	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:25	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:25	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:25	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.3	30-150		7/31/17 18:25
Decachlorobiphenyl [2]	82.9	30-150		7/31/17 18:25
Tetrachloro-m-xylene [1]	66.3	30-150		7/31/17 18:25
Tetrachloro-m-xylene [2]	71.0	30-150		7/31/17 18:25

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-53-1 Sampled: 7/20/2017 10:15

Sample ID: 17G0866-17

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.7		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-53-2 Sampled: 7/20/2017 10:16

Sample ID: 17G0866-18

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	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:42	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:42	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:42	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:42	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:42	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:42	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:42	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:42	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:42	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.0	30-150		7/31/17 18:42
Decachlorobiphenyl [2]	105	30-150		7/31/17 18:42
Tetrachloro-m-xylene [1]	89.9	30-150		7/31/17 18:42
Tetrachloro-m-xylene [2]	92.0	30-150		7/31/17 18:42

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-53-2 Sampled: 7/20/2017 10:16

Sample ID: 17G0866-18

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	90.3		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-53-3 Sampled: 7/20/2017 10:17

Sample ID: 17G0866-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.7	30-150		7/31/17 19:00
Decachlorobiphenyl [2]	118	30-150		7/31/17 19:00
Tetrachloro-m-xylene [1]	86.8	30-150		7/31/17 19:00
Tetrachloro-m-xylene [2]	93.6	30-150		7/31/17 19:00

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-53-3 Sampled: 7/20/2017 10:17

Sample ID: 17G0866-19

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	71.1		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-48-1 Sampled: 7/20/2017 10:30

Sample ID: 17G0866-20

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	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:18	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:18	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:18	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:18	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:18	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:18	KAL
Aroclor-1260 [2]	0.19	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:18	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:18	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:18	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.1	30-150		7/31/17 19:18
Decachlorobiphenyl [2]	109	30-150		7/31/17 19:18
Tetrachloro-m-xylene [1]	88.7	30-150		7/31/17 19:18
Tetrachloro-m-xylene [2]	95.9	30-150		7/31/17 19:18

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-48-1 Sampled: 7/20/2017 10:30

Sample ID: 17G0866-20

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	92.7		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0866-14 [WS-AOC12W-SO-57-1B]	B182711	30.0	1.00	07/27/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0866-01 [WS-AOC12W-SO-63-1B]	B182677	07/28/17
17G0866-02 [WS-AOC12W-SO-63-2]	B182677	07/28/17
17G0866-03 [WS-AOC12W-SO-63-3]	B182677	07/28/17
17G0866-04 [WS-AOC12W-SO-61-1]	B182677	07/28/17
17G0866-05 [WS-AOC12W-SO-61-2]	B182677	07/27/17
17G0866-06 [WS-AOC12W-SO-61-3]	B182677	07/27/17
17G0866-07 [WS-AOC12W-SO-55-1]	B182677	07/27/17
17G0866-08 [WS-AOC12W-SO-55-2]	B182677	07/27/17
17G0866-09 [WS-AOC12W-SO-55-3]	B182677	07/27/17
17G0866-10 [WS-AOC12W-SO-51-1]	B182677	07/27/17
17G0866-11 [WS-AOC12W-SO-51-2]	B182677	07/27/17
17G0866-12 [WS-AOC12W-SO-51-3]	B182677	07/27/17
17G0866-13 [WS-AOC12W-SO-57-1A]	B182677	07/27/17
17G0866-14 [WS-AOC12W-SO-57-1B]	B182677	07/27/17
17G0866-15 [WS-AOC12W-SO-57-2]	B182677	07/27/17
17G0866-16 [WS-AOC12W-SO-57-3]	B182677	07/27/17
17G0866-17 [WS-AOC12W-SO-53-1]	B182677	07/27/17
17G0866-18 [WS-AOC12W-SO-53-2]	B182677	07/27/17
17G0866-19 [WS-AOC12W-SO-53-3]	B182677	07/27/17
17G0866-20 [WS-AOC12W-SO-48-1]	B182677	07/27/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0866-14 [WS-AOC12W-SO-57-1B]	B182378	1.05	50.0	07/24/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0866-02 [WS-AOC12W-SO-63-2]	B182730	10.0	10.0	07/27/17
17G0866-03 [WS-AOC12W-SO-63-3]	B182730	10.0	10.0	07/27/17
17G0866-04 [WS-AOC12W-SO-61-1]	B182730	10.0	10.0	07/27/17
17G0866-05 [WS-AOC12W-SO-61-2]	B182730	10.0	10.0	07/27/17
17G0866-06 [WS-AOC12W-SO-61-3]	B182730	10.0	10.0	07/27/17
17G0866-07 [WS-AOC12W-SO-55-1]	B182730	10.0	10.0	07/27/17
17G0866-08 [WS-AOC12W-SO-55-2]	B182730	10.0	10.0	07/27/17
17G0866-09 [WS-AOC12W-SO-55-3]	B182730	10.0	10.0	07/27/17
17G0866-10 [WS-AOC12W-SO-51-1]	B182730	10.0	10.0	07/27/17
17G0866-11 [WS-AOC12W-SO-51-2]	B182730	10.0	10.0	07/27/17
17G0866-12 [WS-AOC12W-SO-51-3]	B182730	10.0	10.0	07/27/17
17G0866-13 [WS-AOC12W-SO-57-1A]	B182730	10.0	10.0	07/27/17
17G0866-15 [WS-AOC12W-SO-57-2]	B182730	10.0	10.0	07/27/17
17G0866-16 [WS-AOC12W-SO-57-3]	B182730	10.0	10.0	07/27/17
17G0866-17 [WS-AOC12W-SO-53-1]	B182730	10.0	10.0	07/27/17
17G0866-18 [WS-AOC12W-SO-53-2]	B182730	10.0	10.0	07/27/17
17G0866-19 [WS-AOC12W-SO-53-3]	B182730	10.0	10.0	07/27/17

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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
17G0866-20 [WS-AOC12W-SO-48-1]	B182730	10.0	10.0	07/27/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0866-01 [WS-AOC12W-SO-63-1B]	B182702	30.0	1.00	07/27/17

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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 B182702 - SW-846 3546										
Blank (B182702-BLK1)				Prepared: 07/27/17 Analyzed: 07/28/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*1.56*		mg/Kg wet	3.33		46.8	30-130			
Surrogate: 2-Fluorobiphenyl	*1.50*		mg/Kg wet	3.33		44.9	30-130			
Surrogate: p-Terphenyl-d14	*1.56*		mg/Kg wet	3.33		46.8	30-130			
LCS (B182702-BS1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Acenaphthene	1.17	0.17	mg/Kg wet	1.67		70.5	40-140			
Acenaphthylene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Anthracene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140			
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.4	40-140			
Benzo(a)pyrene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140			
Benzo(b)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140			
Benzo(g,h,i)perylene	1.48	0.17	mg/Kg wet	1.67		88.5	40-140			
Benzo(k)fluoranthene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Chrysene	1.24	0.17	mg/Kg wet	1.67		74.1	40-140			
Dibenz(a,h)anthracene	1.39	0.17	mg/Kg wet	1.67		83.3	40-140			
Fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140			
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140			
Indeno(1,2,3-cd)pyrene	1.35	0.17	mg/Kg wet	1.67		81.0	40-140			
2-Methylnaphthalene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Naphthalene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Phenanthrene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140			
Pyrene	1.31	0.17	mg/Kg wet	1.67		78.6	40-140			
Surrogate: Nitrobenzene-d5	*2.68*		mg/Kg wet	3.33		80.4	30-130			
Surrogate: 2-Fluorobiphenyl	*2.68*		mg/Kg wet	3.33		80.5	30-130			
Surrogate: p-Terphenyl-d14	*2.96*		mg/Kg wet	3.33		88.7	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
Batch B182702 - SW-846 3546										
LCS Dup (B182702-BSD1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Acenaphthene	0.953	0.17	mg/Kg wet	1.67		57.2	40-140	20.8	30	
Acenaphthylene	0.915	0.17	mg/Kg wet	1.67		54.9	40-140	21.6	30	
Anthracene	0.982	0.17	mg/Kg wet	1.67		58.9	40-140	20.6	30	
Benzo(a)anthracene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140	20.7	30	
Benzo(a)pyrene	0.995	0.17	mg/Kg wet	1.67		59.7	40-140	19.7	30	
Benzo(b)fluoranthene	0.918	0.17	mg/Kg wet	1.67		55.1	40-140	19.8	30	
Benzo(g,h,i)perylene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	19.8	30	
Benzo(k)fluoranthene	0.903	0.17	mg/Kg wet	1.67		54.2	40-140	22.4	30	
Chrysene	0.989	0.17	mg/Kg wet	1.67		59.3	40-140	22.2	30	
Dibenz(a,h)anthracene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	19.8	30	
Fluoranthene	0.901	0.17	mg/Kg wet	1.67		54.0	40-140	18.8	30	
Fluorene	0.946	0.17	mg/Kg wet	1.67		56.7	40-140	21.7	30	
Indeno(1,2,3-cd)pyrene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140	20.0	30	
2-Methylnaphthalene	0.983	0.17	mg/Kg wet	1.67		59.0	40-140	19.6	30	
Naphthalene	0.960	0.17	mg/Kg wet	1.67		57.6	40-140	16.5	30	
Phenanthrene	0.979	0.17	mg/Kg wet	1.67		58.8	40-140	20.5	30	
Pyrene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	22.9	30	
Surrogate: Nitrobenzene-d5	*2.25*		mg/Kg wet	3.33		67.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.33		64.6	30-130			
Surrogate: p-Terphenyl-d14	*2.33*		mg/Kg wet	3.33		70.0	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 B182730 - SW-846 3540C										
Blank (B182730-BLK1)				Prepared: 07/27/17 Analyzed: 07/31/17						
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	*0.196*		mg/Kg wet	0.200		98.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.230*		mg/Kg wet	0.200		115	30-150			
Surrogate: Tetrachloro-m-xylene	*0.181*		mg/Kg wet	0.200		90.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.201*		mg/Kg wet	0.200		100	30-150			
LCS (B182730-BS1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		81.6	40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		101	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		74.8	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		91.6	40-140			
Surrogate: Decachlorobiphenyl	*0.195*		mg/Kg wet	0.200		97.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.228*		mg/Kg wet	0.200		114	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.199*		mg/Kg wet	0.200		99.4	30-150			
LCS Dup (B182730-BSD1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		87.0	40-140	6.37	30	
Aroclor-1016 [2C]	0.21	0.020	mg/Kg wet	0.200		105	40-140	3.76	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.7	40-140	5.17	30	
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		94.0	40-140	2.62	30	
Surrogate: Decachlorobiphenyl	*0.201*		mg/Kg wet	0.200		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.227*		mg/Kg wet	0.200		113	30-150			
Surrogate: Tetrachloro-m-xylene	*0.189*		mg/Kg wet	0.200		94.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.202*		mg/Kg wet	0.200		101	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182730 - SW-846 3540C										
Matrix Spike (B182730-MS1)		**Source: 17G0866-17**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.19	0.12	mg/Kg dry	0.231	ND	81.3	40-140			
Aroclor-1016 [2C]	0.23	0.12	mg/Kg dry	0.231	ND	98.9	40-140			
Aroclor-1260	0.23	0.12	mg/Kg dry	0.231	0.069	69.0	40-140			
Aroclor-1260 [2C]	0.28	0.12	mg/Kg dry	0.231	0.094	80.6	40-140			
Surrogate: Decachlorobiphenyl	*0.210*		mg/Kg dry	0.231		91.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.236*		mg/Kg dry	0.231		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.194*		mg/Kg dry	0.231		84.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.208*		mg/Kg dry	0.231		90.0	30-150			
Matrix Spike Dup (B182730-MSD1)		**Source: 17G0866-17**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.21	0.12	mg/Kg dry	0.231	ND	89.1	40-140	9.09	50	
Aroclor-1016 [2C]	0.27	0.12	mg/Kg dry	0.231	ND	119	40-140	18.6	50	
Aroclor-1260	0.26	0.12	mg/Kg dry	0.231	0.069	83.1	40-140	13.3	50	
Aroclor-1260 [2C]	0.32	0.12	mg/Kg dry	0.231	0.094	96.4	40-140	12.2	50	
Surrogate: Decachlorobiphenyl	*0.232*		mg/Kg dry	0.231		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.259*		mg/Kg dry	0.231		112	30-150			
Surrogate: Tetrachloro-m-xylene	*0.213*		mg/Kg dry	0.231		92.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.224*		mg/Kg dry	0.231		97.1	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182711 - SW-846 3546										
Blank (B182711-BLK1)				Prepared: 07/27/17 Analyzed: 08/01/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.13*		mg/Kg wet	3.33		93.9	50-150			
LCS (B182711-BS1)				Prepared: 07/27/17 Analyzed: 08/01/17						
CT ETPH	29.4	10	mg/Kg wet	33.3		88.2	60-120			
Surrogate: o-Terphenyl	*2.65*		mg/Kg wet	3.33		79.5	50-150			
LCS Dup (B182711-BSD1)				Prepared: 07/27/17 Analyzed: 08/01/17						
CT ETPH	28.3	10	mg/Kg wet	33.3		85.0	60-120	3.69	30	
Surrogate: o-Terphenyl	*2.56*		mg/Kg wet	3.33		76.9	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 B182378 - SW-846 3050B										
Blank (B182378-BLK1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B182378-BS1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Arsenic	54.2	5.0	mg/Kg wet	57.0		95.1	77.8-122.1			
LCS Dup (B182378-BSD1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Arsenic	53.8	5.1	mg/Kg wet	57.0		94.4	77.8-122.1	0.736	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 B182677 - % Solids										
Duplicate (B182677-DUP4)		**Source: 17G0866-17**		Prepared: 07/27/17 Analyzed: 07/28/17						
% Solids	86.7		% Wt		86.7			0.00	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-48-1

Lab Sample ID: 17G0866-20

Date(s) Analyzed: 07/31/2017 07/31/2017

Instrument ID (1): ECD1

Instrument ID (2): ECD1

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.19	17.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182730-BS1

Date(s) Analyzed: 07/31/2017 07/31/2017

Instrument ID (1): ECD1

Instrument ID (2): ECD1

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.20	22.2
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.18	18.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182730-BSD1 Date(s) Analyzed: 07/31/2017 07/31/2017

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.21	21.1
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.19	17.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182730-MS1 Date(s) Analyzed: 07/31/2017 07/31/2017

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.23	19.0
Aroclor-1260	1	0.000	-0.030	0.030	0.23	
	2	0.000	-0.030	0.030	0.28	19.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182730-MSD1 Date(s) Analyzed: 07/31/2017 07/31/2017

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.27	25.0
Aroclor-1260	1	0.000	-0.030	0.030	0.26	
	2	0.000	-0.030	0.030	0.32	20.7

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FLAG/QUALIFIER SUMMARY

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

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

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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

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

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http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	Preservation Code	Container Code
1	WS-AOC12W-SO-63-1B	7/20/17	9:33		X	S	U			X						
2	WS-AOC12W-SO-63-2		9:34					X								
3	WS-AOC12W-SO-63-3		9:35					X								
4	WS-AOC12W-SO-61-1		9:50					X								
5	WS-AOC12W-SO-61-2		9:51					X								
6	WS-AOC12W-SO-61-3		9:52					X								
7	WS-AOC12W-SO-55-1		10:04					X								
8	WS-AOC12W-SO-55-2		10:06					X								
9	WS-AOC12W-SO-55-3		10:08					X								
10	WS-AOC12W-SO-51-1		10:10					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time: 7/20/17 1535
Received by: (signature)	Date/Time: 7/20/17 1535
Relinquished by: (signature)	Date/Time: 7-20-17 6:30
Received by: (signature)	Date/Time: 7/20/17 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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1760866

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Doc # 381 Rev 0 5 8 2015

con-test ANALYTICAL LABORATORY

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12W-SO-51-2	7/20/17	10:12		X	S	U	X								
12	WS-AOC12W-SO-51-3		10:14					X								
13	WS-AOC12W-SO-57-1A		10:02					X								
14	WS-AOC12W-SO-57-1B		10:03								X		X			
15	WS-AOC12W-SO-57-2		10:04					X								
16	WS-AOC12W-SO-57-3		10:05					X								
17	WS-AOC12W-SO-53-1 (MS-MSD)		10:15					X								
18	WS-AOC12W-SO-53-2		10:16					X								
19	WS-AOC12W-SO-53-3		10:17					X								
20	WS-AOC12W-SO-48-1		10:30					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments:
WS-AOC12W-SO-53-1 (MS-MSD
Please hold excess volumes for possible SPLP analyses.

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

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

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

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

Relinquished by: (signature)	Date/Time: 7/20/17 1535
Received by: (signature)	Date/Time: 7/20/17 1535
Relinquished by: (signature)	Date/Time: 7/20/17 1630
Received by: (signature)	Date/Time: 7/20/17 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

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

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Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By SM Date 7/20/17 Time 1830

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

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 4.5, 3.4, 3.2
By Blank # ____ Actual Temp - ____

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

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	22
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

D:\HPCHEM\1\DATA\A080217.SEC\A0802053.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/2/17
Data File Name	A0802053.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	359815	380451	-5
c - 10	1.50	352547	380451	-7
c - 12	2.22	374391	380451	-2
c - 14	2.89	384612	380451	1
c - 16	3.48	394076	380451	4
c - 18	4.05	388606	380451	2
o-Terphenyl	4.36	444826	380451	
c - 20	4.67	393700	380451	3
c - 22	5.18	398363	380451	5
c - 24	5.62	371023	380451	-2
c - 26	6.01	389982	380451	3
c - 28	6.37	384491	380451	1
c - 30	6.70	383606	380451	1
c - 32	7.01	375705	380451	-1
c - 34	7.30	377889	380451	-1
c - 36	7.58	377960	380451	-1

* One compound allowed %D </= 50%

Samples

17G0683-12@20X
17G0774-04@10X

D:\HPCHEM\1\DATA\A080217.SEC\A080293.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/2/17
Data File Name	A080293.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	363192	388257	-6
c - 10	1.49	353450	388257	-9
c - 12	2.23	378033	388257	-3
c - 14	2.89	391251	388257	1
c - 16	3.48	401490	388257	3
c - 18	4.05	397496	388257	2
o-Terphenyl	4.36	454898	388257	
c - 20	4.66	404130	388257	4
c - 22	5.18	408473	388257	5
c - 24	5.62	379630	388257	-2
c - 26	6.01	399141	388257	3
c - 28	6.37	392867	388257	1
c - 30	6.70	393552	388257	1
c - 32	7.01	386366	388257	0
c - 34	7.30	387490	388257	0
c - 36	7.58	387297	388257	0

* One compound allowed %D </= 50%

Samples

17G1059-01@5X
17G0865-14@5X
17G0866-14@5X
17G1077-03
17G1079-06
17G1048-01@50X
17G0911-16@20X
17G0913-08@50X

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: 17G0866

Laboratory Sample ID(s):

17G0866-01 thru 17G0866-20

Sample Date(s):

07/20/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A, SW-846 8270D

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

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

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

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

Printed Name: **Lisa A. Worthington** **Date:** **08/03/17**

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

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

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

August 15, 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: 17G0867

Enclosed are results of analyses for samples received by the laboratory on July 20, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

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

REPORT DATE: 8/15/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0867

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

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-SO-48-2	17G0867-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-48-3	17G0867-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-88-1	17G0867-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-88-2A	17G0867-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-88-2B	17G0867-05	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC12W-SO-88-3	17G0867-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-88-4	17G0867-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-87-1	17G0867-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-87-2A	17G0867-09	Water		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-87-2B	17G0867-10	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC12W-SO-87-3	17G0867-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-87-4	17G0867-12	Water		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-97-1	17G0867-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-97-2A	17G0867-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-97-2B	17G0867-15	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC12W-SO-97-3	17G0867-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-97-4	17G0867-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-89-1	17G0867-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-89-2	17G0867-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-89-3	17G0867-20	Soil		SM 2540G	
				SW-846 8082A	

con-test® ANALYTICAL LABORATORY

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

CASE NARRATIVE SUMMARY

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

REVISED REPORT 08/15/17 - Sample IDs updated per chain of custody.

For method 8270, only PAHs were requested and reported.

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
17G0867-12[WS-AOC12W-SO-87-4]

Decachlorobiphenyl [2C]
17G0867-12[WS-AOC12W-SO-87-4]

Tetrachloro-m-xylene
17G0867-12[WS-AOC12W-SO-87-4]

Tetrachloro-m-xylene [2C]
17G0867-12[WS-AOC12W-SO-87-4]

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

James M. Georgantas
Project Management Supervisor

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-48-2 Sampled: 7/20/2017 10:32

Sample ID: 17G0867-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 22:45	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 22:45	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 22:45	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 22:45	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 22:45	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 22:45	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 22:45	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 22:45	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 22:45	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	102	30-150		7/31/17 22:45
Decachlorobiphenyl [2]	112	30-150		7/31/17 22:45
Tetrachloro-m-xylene [1]	89.6	30-150		7/31/17 22:45
Tetrachloro-m-xylene [2]	95.3	30-150		7/31/17 22:45

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-48-2 Sampled: 7/20/2017 10:32

Sample ID: 17G0867-01

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	90.8		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-48-3 Sampled: 7/20/2017 10:34

Sample ID: 17G0867-02

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	0.19	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:03	KAL
Aroclor-1221 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:03	KAL
Aroclor-1232 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:03	KAL
Aroclor-1242 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:03	KAL
Aroclor-1248 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:03	KAL
Aroclor-1254 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:03	KAL
Aroclor-1260 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:03	KAL
Aroclor-1262 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:03	KAL
Aroclor-1268 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:03	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.3	30-150		7/31/17 23:03
Decachlorobiphenyl [2]	115	30-150		7/31/17 23:03
Tetrachloro-m-xylene [1]	92.2	30-150		7/31/17 23:03
Tetrachloro-m-xylene [2]	98.0	30-150		7/31/17 23:03

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-48-3 Sampled: 7/20/2017 10:34

Sample ID: 17G0867-02

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	53.8		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-88-1 Sampled: 7/20/2017 13:25

Sample ID: 17G0867-03

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	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:21	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:21	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:21	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:21	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:21	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:21	KAL
Aroclor-1260 [2]	0.22	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:21	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:21	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:21	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.4	30-150		7/31/17 23:21
Decachlorobiphenyl [2]	101	30-150		7/31/17 23:21
Tetrachloro-m-xylene [1]	86.3	30-150		7/31/17 23:21
Tetrachloro-m-xylene [2]	92.7	30-150		7/31/17 23:21

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-88-1 Sampled: 7/20/2017 13:25

Sample ID: 17G0867-03

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	98.4		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-88-2A Sampled: 7/20/2017 13:26

Sample ID: 17G0867-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:39	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:39	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:39	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:39	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:39	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:39	KAL
Aroclor-1260 [2]	0.78	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:39	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:39	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:39	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.9	30-150		7/31/17 23:39
Decachlorobiphenyl [2]	104	30-150		7/31/17 23:39
Tetrachloro-m-xylene [1]	84.9	30-150		7/31/17 23:39
Tetrachloro-m-xylene [2]	91.4	30-150		7/31/17 23:39

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-88-2A Sampled: 7/20/2017 13:26

Sample ID: 17G0867-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.7		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-88-2B Sampled: 7/20/2017 13:27

Sample ID: 17G0867-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	50	10	mg/Kg dry	1		CTDEP ETPH	7/27/17	8/2/17 23:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	103	50-150		8/2/17 23:54

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-88-2B Sampled: 7/20/2017 13:27

Sample ID: 17G0867-05

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	98.2		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-88-3 Sampled: 7/20/2017 13:28

Sample ID: 17G0867-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:57	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:57	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:57	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:57	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:57	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:57	KAL
Aroclor-1260 [2]	0.95	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:57	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:57	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:57	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.1	30-150		7/31/17 23:57
Decachlorobiphenyl [2]	103	30-150		7/31/17 23:57
Tetrachloro-m-xylene [1]	86.0	30-150		7/31/17 23:57
Tetrachloro-m-xylene [2]	90.9	30-150		7/31/17 23:57

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-88-3 Sampled: 7/20/2017 13:28

Sample ID: 17G0867-06

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	86.2		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-88-4 Sampled: 7/20/2017 13:29

Sample ID: 17G0867-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:15	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:15	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:15	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:15	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:15	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:15	KAL
Aroclor-1260 [2]	0.22	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:15	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:15	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:15	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	111	30-150		8/1/17 0:15
Decachlorobiphenyl [2]	121	30-150		8/1/17 0:15
Tetrachloro-m-xylene [1]	102	30-150		8/1/17 0:15
Tetrachloro-m-xylene [2]	108	30-150		8/1/17 0:15

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: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-88-4 Sampled: 7/20/2017 13:29

Sample ID: 17G0867-07

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	89.5		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-87-1 Sampled: 7/20/2017 13:30

Sample ID: 17G0867-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:33	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:33	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:33	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:33	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:33	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:33	KAL
Aroclor-1260 [2]	0.70	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:33	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:33	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:33	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	104	30-150		8/1/17 0:33
Decachlorobiphenyl [2]	114	30-150		8/1/17 0:33
Tetrachloro-m-xylene [1]	91.2	30-150		8/1/17 0:33
Tetrachloro-m-xylene [2]	97.8	30-150		8/1/17 0:33

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-87-1 Sampled: 7/20/2017 13:30

Sample ID: 17G0867-08

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	98.3		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-87-2A Sampled: 7/20/2017 13:31

Sample ID: 17G0867-09

Sample Matrix: Water

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:51	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:51	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:51	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:51	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:51	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:51	KAL
Aroclor-1260 [2]	0.73	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:51	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:51	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:51	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.4	30-150		8/1/17 0:51
Decachlorobiphenyl [2]	105	30-150		8/1/17 0:51
Tetrachloro-m-xylene [1]	87.4	30-150		8/1/17 0:51
Tetrachloro-m-xylene [2]	92.3	30-150		8/1/17 0:51

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-87-2A Sampled: 7/20/2017 13:31

Sample ID: 17G0867-09

Sample Matrix: Water

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	7/27/17	7/28/17 10:26	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-87-2B Sampled: 7/20/2017 13:32

Sample ID: 17G0867-10

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	7/27/17	7/31/17 18:28	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Benzo(a)anthracene	0.24	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Benzo(a)pyrene	0.26	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Benzo(b)fluoranthene	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Chrysene	0.37	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Fluoranthene	0.44	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Phenanthrene	0.37	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Pyrene	0.38	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	55.6	30-130		7/31/17 18:28
2-Fluorobiphenyl	54.3	30-130		7/31/17 18:28
p-Terphenyl-d14	52.7	30-130		7/31/17 18:28

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-87-2B Sampled: 7/20/2017 13:32

Sample ID: 17G0867-10

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	90.1		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-87-3 Sampled: 7/20/2017 13:33

Sample ID: 17G0867-11

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	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 1:58	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 1:58	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 1:58	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 1:58	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 1:58	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 1:58	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 1:58	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 1:58	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 1:58	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.9	30-150		8/1/17 1:58
Decachlorobiphenyl [2]	122	30-150		8/1/17 1:58
Tetrachloro-m-xylene [1]	87.6	30-150		8/1/17 1:58
Tetrachloro-m-xylene [2]	92.5	30-150		8/1/17 1:58

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-87-3 Sampled: 7/20/2017 13:33

Sample ID: 17G0867-11

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	82.4		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-87-4 Sampled: 7/20/2017 13:34

Sample ID: 17G0867-12

Sample Matrix: Water

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	7/27/17	8/1/17 8:06	KAL
Aroclor-1221 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	7/27/17	8/1/17 8:06	KAL
Aroclor-1232 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	7/27/17	8/1/17 8:06	KAL
Aroclor-1242 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	7/27/17	8/1/17 8:06	KAL
Aroclor-1248 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	7/27/17	8/1/17 8:06	KAL
Aroclor-1254 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	7/27/17	8/1/17 8:06	KAL
Aroclor-1260 [2]	5.7	1.2	mg/Kg dry	50		SW-846 8082A	7/27/17	8/1/17 8:06	KAL
Aroclor-1262 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	7/27/17	8/1/17 8:06	KAL
Aroclor-1268 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	7/27/17	8/1/17 8:06	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/1/17 8:06
Decachlorobiphenyl [2]	*	30-150	S-01	8/1/17 8:06
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/1/17 8:06
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/1/17 8:06

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-87-4 Sampled: 7/20/2017 13:34

Sample ID: 17G0867-12

Sample Matrix: Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.6		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-97-1 Sampled: 7/20/2017 13:57

Sample ID: 17G0867-13

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	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:35	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:35	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:35	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:35	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:35	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:35	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:35	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:35	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:35	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	102	30-150		8/1/17 2:35
Decachlorobiphenyl [2]	112	30-150		8/1/17 2:35
Tetrachloro-m-xylene [1]	99.0	30-150		8/1/17 2:35
Tetrachloro-m-xylene [2]	104	30-150		8/1/17 2:35

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: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-97-1 Sampled: 7/20/2017 13:57

Sample ID: 17G0867-13

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	99.5		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-97-2A Sampled: 7/20/2017 13:59

Sample ID: 17G0867-14

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	5		SW-846 8082A	7/27/17	8/1/17 2:53	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:53	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:53	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:53	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:53	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:53	KAL
Aroclor-1260 [2]	0.12	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:53	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:53	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:53	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	105	30-150		8/1/17 2:53
Decachlorobiphenyl [2]	114	30-150		8/1/17 2:53
Tetrachloro-m-xylene [1]	95.3	30-150		8/1/17 2:53
Tetrachloro-m-xylene [2]	100	30-150		8/1/17 2:53

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-97-2A Sampled: 7/20/2017 13:59

Sample ID: 17G0867-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.6		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-97-2B Sampled: 7/20/2017 14:01

Sample ID: 17G0867-15

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	7/27/17	7/31/17 18:55	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Benzo(a)anthracene	1.3	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Benzo(a)pyrene	1.5	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Benzo(b)fluoranthene	2.1	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Benzo(g,h,i)perylene	0.87	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Benzo(k)fluoranthene	0.76	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Chrysene	1.2	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Fluoranthene	3.0	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Indeno(1,2,3-cd)pyrene	0.89	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Phenanthrene	0.49	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Pyrene	2.3	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	53.8	30-130		7/31/17 18:55
2-Fluorobiphenyl	56.4	30-130		7/31/17 18:55
p-Terphenyl-d14	56.3	30-130		7/31/17 18:55

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-97-2B Sampled: 7/20/2017 14:01

Sample ID: 17G0867-15

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	89.8		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-97-3 Sampled: 7/20/2017 14:03

Sample ID: 17G0867-16

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	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:11	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:11	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:11	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:11	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:11	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:11	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:11	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:11	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:11	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	105	30-150		8/1/17 3:11
Decachlorobiphenyl [2]	116	30-150		8/1/17 3:11
Tetrachloro-m-xylene [1]	95.1	30-150		8/1/17 3:11
Tetrachloro-m-xylene [2]	101	30-150		8/1/17 3:11

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-97-3 Sampled: 7/20/2017 14:03

Sample ID: 17G0867-16

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	89.6		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-97-4 Sampled: 7/20/2017 14:05

Sample ID: 17G0867-17

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	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:29	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:29	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:29	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:29	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:29	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:29	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:29	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:29	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:29	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	108	30-150		8/1/17 3:29
Decachlorobiphenyl [2]	119	30-150		8/1/17 3:29
Tetrachloro-m-xylene [1]	98.4	30-150		8/1/17 3:29
Tetrachloro-m-xylene [2]	103	30-150		8/1/17 3:29

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-97-4 Sampled: 7/20/2017 14:05

Sample ID: 17G0867-17

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	83.5		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-89-1 Sampled: 7/20/2017 13:50

Sample ID: 17G0867-18

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	5		SW-846 8082A	7/27/17	8/1/17 3:48	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:48	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:48	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:48	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:48	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:48	KAL
Aroclor-1260 [2]	0.40	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:48	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:48	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:48	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.8	30-150		8/1/17 3:48
Decachlorobiphenyl [2]	103	30-150		8/1/17 3:48
Tetrachloro-m-xylene [1]	86.3	30-150		8/1/17 3:48
Tetrachloro-m-xylene [2]	90.9	30-150		8/1/17 3:48

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-89-1 Sampled: 7/20/2017 13:50

Sample ID: 17G0867-18

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	97.7		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-89-2 Sampled: 7/20/2017 13:51

Sample ID: 17G0867-19

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	5		SW-846 8082A	7/27/17	8/1/17 4:06	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:06	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:06	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:06	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:06	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:06	KAL
Aroclor-1260 [2]	0.70	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:06	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:06	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:06	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	106	30-150		8/1/17 4:06
Decachlorobiphenyl [2]	115	30-150		8/1/17 4:06
Tetrachloro-m-xylene [1]	93.4	30-150		8/1/17 4:06
Tetrachloro-m-xylene [2]	99.5	30-150		8/1/17 4:06

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: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-89-2 Sampled: 7/20/2017 13:51

Sample ID: 17G0867-19

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	90.7		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-89-3 Sampled: 7/20/2017 13:52

Sample ID: 17G0867-20

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	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:23	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:23	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:23	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:23	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:23	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:23	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:23	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:23	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:23	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	113	30-150		8/1/17 4:23
Decachlorobiphenyl [2]	129	30-150		8/1/17 4:23
Tetrachloro-m-xylene [1]	108	30-150		8/1/17 4:23
Tetrachloro-m-xylene [2]	113	30-150		8/1/17 4:23

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-89-3 Sampled: 7/20/2017 13:52

Sample ID: 17G0867-20

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	84.1		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0867-05 [WS-AOC12W-SO-88-2B]	B182711	30.0	1.00	07/27/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0867-01 [WS-AOC12W-SO-48-2]	B182677	07/27/17
17G0867-02 [WS-AOC12W-SO-48-3]	B182677	07/27/17
17G0867-03 [WS-AOC12W-SO-88-1]	B182677	07/27/17
17G0867-04 [WS-AOC12W-SO-88-2A]	B182677	07/27/17
17G0867-05 [WS-AOC12W-SO-88-2B]	B182677	07/27/17
17G0867-06 [WS-AOC12W-SO-88-3]	B182677	07/27/17
17G0867-07 [WS-AOC12W-SO-88-4]	B182677	07/27/17
17G0867-08 [WS-AOC12W-SO-87-1]	B182677	07/27/17
17G0867-09 [WS-AOC12W-SO-87-2A]	B182677	07/27/17
17G0867-10 [WS-AOC12W-SO-87-2B]	B182677	07/27/17
17G0867-11 [WS-AOC12W-SO-87-3]	B182677	07/27/17
17G0867-12 [WS-AOC12W-SO-87-4]	B182677	07/27/17
17G0867-13 [WS-AOC12W-SO-97-1]	B182677	07/27/17
17G0867-14 [WS-AOC12W-SO-97-2A]	B182677	07/27/17
17G0867-15 [WS-AOC12W-SO-97-2B]	B182677	07/27/17
17G0867-16 [WS-AOC12W-SO-97-3]	B182677	07/27/17
17G0867-17 [WS-AOC12W-SO-97-4]	B182677	07/27/17
17G0867-18 [WS-AOC12W-SO-89-1]	B182677	07/27/17
17G0867-19 [WS-AOC12W-SO-89-2]	B182677	07/27/17
17G0867-20 [WS-AOC12W-SO-89-3]	B182677	07/27/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0867-01 [WS-AOC12W-SO-48-2]	B182736	10.0	10.0	07/27/17
17G0867-02 [WS-AOC12W-SO-48-3]	B182736	10.0	10.0	07/27/17
17G0867-03 [WS-AOC12W-SO-88-1]	B182736	10.0	10.0	07/27/17
17G0867-04 [WS-AOC12W-SO-88-2A]	B182736	10.0	10.0	07/27/17
17G0867-06 [WS-AOC12W-SO-88-3]	B182736	10.0	10.0	07/27/17
17G0867-07 [WS-AOC12W-SO-88-4]	B182736	10.0	10.0	07/27/17
17G0867-08 [WS-AOC12W-SO-87-1]	B182736	10.0	10.0	07/27/17
17G0867-09 [WS-AOC12W-SO-87-2A]	B182736	10.0	10.0	07/27/17
17G0867-11 [WS-AOC12W-SO-87-3]	B182736	10.0	10.0	07/27/17
17G0867-12 [WS-AOC12W-SO-87-4]	B182736	10.0	10.0	07/27/17
17G0867-13 [WS-AOC12W-SO-97-1]	B182736	10.0	10.0	07/27/17
17G0867-14 [WS-AOC12W-SO-97-2A]	B182736	10.0	10.0	07/27/17
17G0867-16 [WS-AOC12W-SO-97-3]	B182736	10.0	10.0	07/27/17
17G0867-17 [WS-AOC12W-SO-97-4]	B182736	10.0	10.0	07/27/17
17G0867-18 [WS-AOC12W-SO-89-1]	B182736	10.0	10.0	07/27/17
17G0867-19 [WS-AOC12W-SO-89-2]	B182736	10.0	10.0	07/27/17
17G0867-20 [WS-AOC12W-SO-89-3]	B182736	10.0	10.0	07/27/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0867-10 [WS-AOC12W-SO-87-2B]	B182710	30.0	1.00	07/27/17

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0867-15 [WS-AOC12W-SO-97-2B]	B182710	30.0	1.00	07/27/17

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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 B182710 - SW-846 3546										
Blank (B182710-BLK1)				Prepared: 07/27/17 Analyzed: 07/31/17						
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	*2.49*		mg/Kg wet	3.33		74.7	30-130			
Surrogate: 2-Fluorobiphenyl	*2.57*		mg/Kg wet	3.33		77.0	30-130			
Surrogate: p-Terphenyl-d14	*2.81*		mg/Kg wet	3.33		84.2	30-130			
LCS (B182710-BS1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Acenaphthene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140			
Acenaphthylene	0.983	0.17	mg/Kg wet	1.67		59.0	40-140			
Anthracene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140			
Benzo(a)anthracene	0.959	0.17	mg/Kg wet	1.67		57.5	40-140			
Benzo(a)pyrene	1.12	0.17	mg/Kg wet	1.67		67.3	40-140			
Benzo(b)fluoranthene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Benzo(g,h,i)perylene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140			
Benzo(k)fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140			
Chrysene	0.920	0.17	mg/Kg wet	1.67		55.2	40-140			
Dibenz(a,h)anthracene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140			
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.5	40-140			
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.0	40-140			
Indeno(1,2,3-cd)pyrene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140			
2-Methylnaphthalene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			
Naphthalene	0.941	0.17	mg/Kg wet	1.67		56.5	40-140			
Phenanthrene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140			
Pyrene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			
Surrogate: Nitrobenzene-d5	*2.14*		mg/Kg wet	3.33		64.1	30-130			
Surrogate: 2-Fluorobiphenyl	*2.17*		mg/Kg wet	3.33		65.2	30-130			
Surrogate: p-Terphenyl-d14	*2.12*		mg/Kg wet	3.33		63.6	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 B182710 - SW-846 3546										
LCS Dup (B182710-BSD1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Acenaphthene	1.06	0.17	mg/Kg wet	1.67		63.3	40-140	2.36	30	
Acenaphthylene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	5.70	30	
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140	3.22	30	
Benzo(a)anthracene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140	6.17	30	
Benzo(a)pyrene	1.19	0.17	mg/Kg wet	1.67		71.2	40-140	5.63	30	
Benzo(b)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.3	40-140	9.15	30	
Benzo(g,h,i)perylene	1.16	0.17	mg/Kg wet	1.67		69.5	40-140	6.78	30	
Benzo(k)fluoranthene	1.17	0.17	mg/Kg wet	1.67		69.9	40-140	8.78	30	
Chrysene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140	7.30	30	
Dibenz(a,h)anthracene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140	6.70	30	
Fluoranthene	1.08	0.17	mg/Kg wet	1.67		64.6	40-140	4.88	30	
Fluorene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140	6.16	30	
Indeno(1,2,3-cd)pyrene	1.19	0.17	mg/Kg wet	1.67		71.2	40-140	11.1	30	
2-Methylnaphthalene	1.14	0.17	mg/Kg wet	1.67		68.7	40-140	12.8	30	
Naphthalene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	10.5	30	
Phenanthrene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140	6.70	30	
Pyrene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140	9.04	30	
Surrogate: Nitrobenzene-d5	*2.44*		mg/Kg wet	3.33		73.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.29*		mg/Kg wet	3.33		68.6	30-130			
Surrogate: p-Terphenyl-d14	*2.32*		mg/Kg wet	3.33		69.6	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 B182736 - SW-846 3540C										
Blank (B182736-BLK1)				Prepared: 07/27/17 Analyzed: 07/31/17						
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	*0.206*		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.217*		mg/Kg wet	0.200		108	30-150			
Surrogate: Tetrachloro-m-xylene	*0.194*		mg/Kg wet	0.200		97.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.196*		mg/Kg wet	0.200		98.2	30-150			
LCS (B182736-BS1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.4	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		93.2	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.6	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		84.7	40-140			
Surrogate: Decachlorobiphenyl	*0.196*		mg/Kg wet	0.200		98.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.206*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg wet	0.200		93.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.186*		mg/Kg wet	0.200		93.0	30-150			
LCS Dup (B182736-BSD1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		82.1	40-140	2.76	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		90.1	40-140	3.42	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		73.7	40-140	3.89	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.2	40-140	4.13	30	
Surrogate: Decachlorobiphenyl	*0.189*		mg/Kg wet	0.200		94.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.198*		mg/Kg wet	0.200		99.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.181*		mg/Kg wet	0.200		90.5	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 B182736 - SW-846 3540C										
Matrix Spike (B182736-MS1)		**Source: 17G0867-01**		Prepared: 07/27/17 Analyzed: 08/01/17						
Aroclor-1016	0.22	0.11	mg/Kg dry	0.220	ND	101	40-140			
Aroclor-1016 [2C]	0.24	0.11	mg/Kg dry	0.220	ND	109	40-140			
Aroclor-1260	0.19	0.11	mg/Kg dry	0.220	ND	86.1	40-140			
Aroclor-1260 [2C]	0.22	0.11	mg/Kg dry	0.220	ND	101	40-140			
Surrogate: Decachlorobiphenyl	*0.223*		mg/Kg dry	0.220		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.242*		mg/Kg dry	0.220		110	30-150			
Surrogate: Tetrachloro-m-xylene	*0.204*		mg/Kg dry	0.220		92.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.216*		mg/Kg dry	0.220		98.1	30-150			
Matrix Spike Dup (B182736-MSD1)		**Source: 17G0867-01**		Prepared: 07/27/17 Analyzed: 08/01/17						
Aroclor-1016	0.22	0.11	mg/Kg dry	0.220	ND	98.2	40-140	2.54	50	
Aroclor-1016 [2C]	0.25	0.11	mg/Kg dry	0.220	ND	112	40-140	2.18	50	
Aroclor-1260	0.19	0.11	mg/Kg dry	0.220	ND	87.7	40-140	1.84	50	
Aroclor-1260 [2C]	0.22	0.11	mg/Kg dry	0.220	ND	102	40-140	1.51	50	
Surrogate: Decachlorobiphenyl	*0.226*		mg/Kg dry	0.220		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.244*		mg/Kg dry	0.220		111	30-150			
Surrogate: Tetrachloro-m-xylene	*0.199*		mg/Kg dry	0.220		90.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.214*		mg/Kg dry	0.220		97.2	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182711 - SW-846 3546										
Blank (B182711-BLK1)				Prepared: 07/27/17 Analyzed: 08/01/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.13*		mg/Kg wet	3.33		93.9	50-150			
LCS (B182711-BS1)				Prepared: 07/27/17 Analyzed: 08/01/17						
CT ETPH	29.4	10	mg/Kg wet	33.3		88.2	60-120			
Surrogate: o-Terphenyl	*2.65*		mg/Kg wet	3.33		79.5	50-150			
LCS Dup (B182711-BSD1)				Prepared: 07/27/17 Analyzed: 08/01/17						
CT ETPH	28.3	10	mg/Kg wet	33.3		85.0	60-120	3.69	30	
Surrogate: o-Terphenyl	*2.56*		mg/Kg wet	3.33		76.9	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 B182677 - % Solids										
Duplicate (B182677-DUP5)		**Source: 17G0867-10**		Prepared: 07/27/17 Analyzed: 07/28/17						
% Solids	90.1		% Wt		90.1			0.00	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-88-1

Lab Sample ID: 17G0867-03 Date(s) Analyzed 07/31/2017 07/31/2017

Instrument ID (1): ECD1 Instrument ID (2): ECD1

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	0.22	20.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-88-2A

Lab Sample ID: 17G0867-04

Date(s) Analyzed 07/31/2017 07/31/2017

Instrument ID (1): ECD1

Instrument ID (2): ECD1

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	0.71	
	2	0.000	-0.030	0.030	0.78	9.4

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-88-3

Lab Sample ID: 17G0867-06

Date(s) Analyzed 07/31/2017 07/31/2017

Instrument ID (1): ECD1

Instrument ID (2): ECD1

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	0.86	
	2	0.000	-0.030	0.030	0.95	9.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-88-4

Lab Sample ID: 17G0867-07

Date(s) Analyzed 08/01/2017 08/01/2017

Instrument ID (1): ECD1

Instrument ID (2): ECD1

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.22	14.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-87-1

Lab Sample ID: 17G0867-08

Date(s) Analyzed 08/01/2017 08/01/2017

Instrument ID (1): ECD1

Instrument ID (2): ECD1

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	0.62	
	2	0.000	-0.030	0.030	0.70	12.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-87-2A

Lab Sample ID: 17G0867-09

Date(s) Analyzed 08/01/2017 08/01/2017

Instrument ID (1): ECD1

Instrument ID (2): ECD1

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	0.63	
	2	0.000	-0.030	0.030	0.73	13.1

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-87-4

Lab Sample ID: 17G0867-12 Date(s) Analyzed 08/01/2017 08/01/2017

Instrument ID (1): ECD1 Instrument ID (2): ECD1

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	5.0	
	2	0.000	-0.030	0.030	5.7	13.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-89-1

Lab Sample ID: 17G0867-18

Date(s) Analyzed 08/01/2017 08/01/2017

Instrument ID (1): ECD1

Instrument ID (2): ECD1

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	0.35	
	2	0.000	-0.030	0.030	0.40	13.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-89-2

Lab Sample ID: 17G0867-19 Date(s) Analyzed 08/01/2017 08/01/2017

Instrument ID (1): ECD1 Instrument ID (2): ECD1

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	0.61	
	2	0.000	-0.030	0.030	0.70	13.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182736-BS1

Date(s) Analyzed 07/31/2017 07/31/2017

Instrument ID (1): ECD1

Instrument ID (2): ECD1

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.19	11.1
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.17	12.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182736-BSD1 Date(s) Analyzed 07/31/2017 07/31/2017

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.18	11.8
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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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182736-MS1

Date(s) Analyzed 08/01/2017 08/01/2017

Instrument ID (1): ECD1

Instrument ID (2): ECD1

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.22	
	2	0.000	-0.030	0.030	0.24	8.7
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.22	14.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182736-MSD1 Date(s) Analyzed 08/01/2017 08/01/2017

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.22	
	2	0.000	-0.030	0.030	0.25	12.8
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.22	14.6

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FLAG/QUALIFIER SUMMARY

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

con-test® ANALYTICAL LABORATORY

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CERTIFICATIONS

Certified Analyses included in this Report

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

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

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

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Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	Cox Hist PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic
1	WS-AOC12W-SO-48-2	7/20/17	10:32		X	S	U	X					
2	WS-AOC12W-SO-48-3		10:34					X					
3	WS-AOC12W-SO-88-1		13:25					X					
4	WS-AOC12W-SO-88-2A		13:26					X					
5	WS-AOC12W-SO-88-2B		13:27								X		
6	WS-AOC12W-SO-88-3		13:28					X					
7	WS-AOC12W-SO-88-4		13:29					X					
8	WS-AOC12W-SO-87-1		13:30					X					
9	WS-AOC12W-SO-87-2A		13:31					X					
10	WS-AOC12W-SO-87-2B		13:32							X			

# 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) _____

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: 7/20/17 1535
Received by: (signature)	Date/Time: 7/20/17 1535
Relinquished by: (signature)	Date/Time: 7-20-17 6:30
Received by: (signature)	Date/Time: 7/20/17 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12W-SO-87-3	7/20/17	13:33		X	S	U	X								
12	WS-AOC12W-SO-87-4	↓	13:34		↓	↓	↓	X								
13	WS-AOC12W-SO-97-1		13:57					X								
14	WS-AOC12W-SO-97-2A		13:59					X								
15	WS-AOC12W-SO-97-2B		14:01							X						
16	WS-AOC12W-SO-97-3		14:03					X								
17	WS-AOC12W-SO-97-4		14:05					X								
18	WS-AOC12W-SO-89-1		13:50					X								
19	WS-AOC12W-SO-89-2		13:51					X								
20	WS-AOC12W-SO-89-3	↓	13:52		↓	↓	↓	X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time: 7/20/17 1535
Received by: (signature)	Date/Time: 7/20/17 1535
Relinquished by: (signature)	Date/Time: 7-20-17 6:30
Received by: (signature)	Date/Time: 7/20/17 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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